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ICP-OES & ICP-MS SAMPLE INTRODUCTION

SCP SCIENCE is a manufacturer and supplier of all forms of sample introduction equipment and supplies. Intended as replacements for your OEM components, **SCP SCIENCE** products are guaranteed to meet, or exceed the OEM specifications. Many new and innovative products are also available which enhance signal, lower background noise and improve detection limits. ICP-OES / ICP-MS products include a variety of nebulizers for different applications, replacement torches, spray chambers, peristaltic pump tubing, ICP-MS cones and a complete range of ICP-OES / ICP-MS Calibration Standards.

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ICP-OES / ICP-MS SAMPLE INTRODUCTION

*Are you trying to get the best performance from your ICP OES/MS?
Looking for alternatives to high-priced OEM components?*

Try some of the New and Innovative products that SCP SCIENCE has to offer!

Ask your Sales Representative, and don't forget to inquire about our FREE promotional items!

TEFLON® INSERT FOR CYCLONIC SPRAY CHAMBER

Battling against residue build-up inside the spray chamber is a familiar exercise for the experienced ICP analyst. This residue is the perfectly normal build-up that occurs during hours of operation, and results in ever-increasing background noise. To combat this, the most efficient technique is acid-bath immersion. Of course the O-rings of a traditional cyclonic spray chamber can make this difficult for fear of their degradation.

Enter the Teflon® insert!

SCP SCIENCE has developed a unique Teflon® insert to replace the conventional O-ring spray chamber / nebulizer interface. The insert can then be fully removed, allowing the analyst to immerse the spray chamber in the solution of their choice, successfully removing any residue.

Features

Special groove to allow for easy nebulizer removal

A second groove to facilitate removal from the spray chamber

A notch to prevent liquid build-up, thereby reducing signal spike during analysis



THE ALUMINA INJECTOR FIXED TORCHES

Tired of swapping out sample introduction components to suit variations in your acid matrix? The **SCP SCIENCE** proprietary and complete inert sample introduction system is for you!

Beginning with our famous Mini X-Flow nebulizer, followed by a 100% Ultem cyclonic spray chamber (both described in detail in the following pages) the chain is complete with the **SCP SCIENCE** patented ICP torch with a fixed alumina injector.

Features

Eliminate the need to switch torches or injectors based on presence of HF

Eliminate concentricity issues to injector alignment with an O-ring-free fixed torch

Less manipulation, longer life

Economically priced

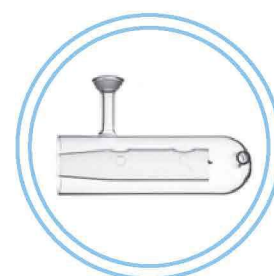
All standard injector sizes available

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

AGILENT® (HP®) ICP-MS

SPRAY CHAMBERS & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Cyclonic Spray Chamber, 50 ml, Borosilicate, w/ baffle	---	020-056-104
Cyclonic Spray Chamber, 50 ml, Quartz, w/ baffle	---	020-056-124
Scott Spray Chamber, Borosilicate, Drain & Exit 180°	---	020-050-131
Scott Spray Chamber, Quartz, Drain & Exit 180°	---	020-050-132
Scott Spray Chamber, Quartz, Drain & Exit 90°	G182065337 /G328080008	020-056-101
Scott Spray Chamber, Borosilicate, Drain & Exit 90°	G182065336	020-056-123
Scott Spray Chamber, Quartz, Drain & Exit 90°, Inner tube extended	G182065339	020-056-102
Socket Adapter, Quartz	---	020-050-134
Ball Adapter, Quartz	---	020-050-138
End cap for Babbington, Teflon®	G183365476	020-050-151
Ball & Socket Adaptor	G183365426	020-050-272



Spray Chamber,
Scott Quartz
020-056-101

TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Torch, Fixed, 1.5 mm, 12/5 joint	G183365424	020-056-002
Torch, Fixed, 2.5 mm, 12/5 joint	G183365423 / G327067002	020-050-161
Torch, Demountable Inert	G183365422	020-050-270
Torch, Demountable w/2 Injectors	G327080043	020-050-219
Injector, Alumina	---	020-050-003
Injector, Quartz	---	020-056-051
Injector Holder, Teflon®	G182065015	020-050-136
Quartz Connector for Optional gas	G183365427	020-053-375
Quartz Bonnet (pk/2)	G183365421 /G183380040	020-056-052



Torch, Fixed
2.5 mm, 12/5 joint
020-050-161

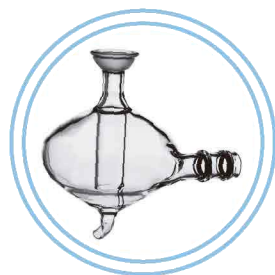
ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

AGILENT® (VARIAN) ICP-OES

AXIAL SPRAY CHAMBERS & ACCESSORIES



Cyclonic Spray Chamber,
50 ml Borosilicate
020-054-160



Cyclonic Spray Chamber,
50 ml Borosilicate
020-050-174

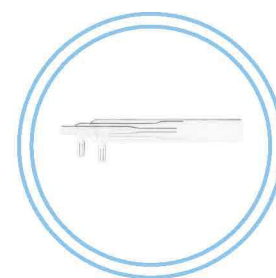
Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 20 ml, Borosilicate, 8 mm exit, 4 mm drain	208090183	020-054-166
Cyclonic Spray Chamber, 20 ml, Borosilicate, 8 mm exit, 4 mm drain, PTFE Insert	---	020-054-168
Jacketed Cyclonic Spray Chamber, 20 ml, Borosilicate, 8 mm exit, 4 mm drain, PTFE Insert	208090129	020-054-170
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Adapter, Spray Chamber to Injector, 8 mm O.D., 12/5 joint, Ultem	---	020-050-452
Cyclonic Spray Chamber, 50 ml, Borosilicate, baffle, 12/5 joint, 4 mm drain	---	020-050-174
Cyclonic Spray Chamber, 50 ml, Borosilicate, 8 mm exit, 4 mm drain	208090600 / 2010081700	020-054-160
Cyclonic Spray Chamber, 50 ml, Borosilicate, 8 mm exit, 4 mm drain, PTFE Insert	208090600 / 2010081700	020-054-162
Cyclonic Spray Chamber, 50 ml, Borosilicate, baffle, 8 mm exit, 4 mm drain, PTFE Insert	7910043700	020-054-314
Jacketed Cyclonic Spray Chamber, 50 ml, Borosilicate, 4 mm drain, PTFE Insert	208090129	020-054-164

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

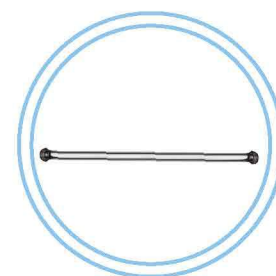
AGILENT® (VARIAN) ICP-OES

AXIAL TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Torch, Fixed, Axial, 2.4 mm	2010081200	020-052-002
Torch, Fixed, Axial, 90° bend, 0.8 mm	2010104700	020-054-082
Torch, Fixed, Axial, 90° bend, 1.4 mm	---	020-054-122
Torch, Fixed, Axial, 90° bend, 1.4 mm, 12/5 joint	2010104800	020-054-224
Torch, Fixed, Axial, 90° bend, 2.0 mm Alumina injector.	---	020-070-010
Torch, Fixed, Axial, 90° bend, 2.2 mm w/ Sheath Gas	2010122400	020-054-123
Torch, Fixed, Axial, 90° bend, 2.3 mm, 12/5 joint	7910050700	020-054-225
Torch, Fixed, Axial, 90° bend, 2.4 mm	2010090400 / 2010104600	020-054-125
Torch, Fixed, Axial, 90° bend, 2.4 mm, Long Life	---	020-054-128
Torch, ICP High Solids, 90° bend	2010094800	020-054-080
Torch Body, Axial	2010083400	020-052-300
Injector, Quartz, 0.8 mm (pk/3)	2010077500	020-052-301
Injector, Quartz, 1.8 mm	2010073000	020-050-144
Injector, Alumina, 1.8 mm	2410067500	020-050-145
Injector, Alumina, 2.5 mm	---	020-052-346
Injector Tube Holder, PTFE	9910057300	020-050-199
Kit - Torch, Axial, Demountable, HF Resistant (020-052-300, 020-050-145, 020-050-199)	9910084700	020-052-003
Adapter, Quartz, 206 mm straight, 12/5 joints, male-male	7910052800	020-050-194
Adapter, Teflon®, 12/5 male for tubing	---	020-048-319
Torch Bonnet, (pk/2)	2010070700	020-050-143
Sheath Gas Port, 12/5 joints, male-in, female-out	---	020-054-306



Torch, Axial, Varian
2.4 mm injector.
[020-052-002](#)



Quartz Adapter,
206 mm straight
[020-050-194](#)

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

AGILENT® (VARIAN) ICP-OES

RADIAL SPRAY CHAMBERS & ACCESSORIES



Spray Chamber,
Cyclonic 50 ml Borosilicate
020-054-160



Cyclonic Spray Chamber
Insert - 50 ml Borosilicate
020-054-162

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Adapter, Spray Chamber to Injector, 8 mm O.D, 12/5 joint, Ultem	---	020-050-452
Cyclonic Spray Chamber, 20 ml, Borosilicate, 8 mm exit, 4 mm drain	208090183	020-054-166
Cyclonic Spray Chamber, 20 ml, Borosilicate, 8 mm exit, 4 mm drain, PTFE Insert	---	020-054-168
Mini Cyclonic Spray Chamber, 20 ml, Quartz, Baffle, 8 mm exit, 4 mm drain Requires separate PTFE Insert (020-049-312)	---	020-049-310
PTFE Insert, for 20 ml spray chamber	---	020-049-312
Jacketed Cyclonic Spray Chamber, 20 ml, Borosilicate, 8 mm exit, 4 mm drain, PTFE Insert	208090129	020-054-170
Cyclonic Spray Chamber, 50 ml, Borosilicate, 8 mm exit 4 mm drain	208090600 / 2010081700	020-054-160
Cyclonic Spray Chamber, 50 ml, Quartz, 8 mm exit, 4 mm drain	---	020-054-161
Cyclonic Spray Chamber, 50 ml, Borosilicate, baffle, 12/5 joint, 4 mm drain	7910043700	020-050-174
Cyclonic Spray Chamber, 50 ml, Quartz, Baffle, 8 mm exit, 4 mm drain	---	020-054-159
Cyclonic Spray Chamber, 50 ml, Borosilicate, 8 mm exit, 4 mm drain, PTFE Insert	208090600 / 2010081700	020-054-162
Cyclonic Spray Chamber, 50 ml, Borosilicate, baffle, 8 mm exit, 4 mm drain, PTFE Insert	7910043700	020-054-314
Cyclonic Spray Chamber, 50 ml, Borosilicate, baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-054-074
Jacketed Cyclonic Spray Chamber, 50 ml, Borosilicate, 4 mm drain, PTFE Insert	208090129	020-054-164

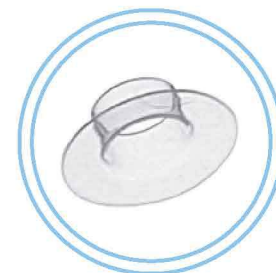
ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches) AGILENT® (VARIAN) ICP-OES

RADIAL TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Torch, Fixed, Radial, 0.8 mm	2010117400	020-050-340
Torch, Fixed, Radial, 0.8 mm, 12/5 joint	2010069690B	020-050-002
Torch, Fixed, Radial, 1.4 mm, 12/5 female joint	2010117500	020-054-234
Torch, Fixed, Radial, 1.5 mm, 12/5 female joint	7910052900	020-054-236
Torch, Fixed, Radial, 1.6 mm	2010069690	020-050-140
Torch, Fixed, Radial, 1.8 mm	2010095000	020-050-133
Torch, Fixed, Radial, 2.3 mm, 12/5 female joint	---	020-054-235
Torch, Extended for Nitrogen	2010076400	020-052-001
Torch Body, Radial	2010072900	020-050-142
Injector, Quartz, 0.8 mm (pk/3)	2010077500	020-052-301
Injector, Quartz, 1.8 mm	2010073000	020-050-144
Injector, Alumina, 1.8 mm	2410067500	020-050-145
Injector, Alumina, 2.5 mm	---	020-052-346
Injector Tube Holder, PTFE	9910057300	020-050-199
Kit - Torch, Radial, Demountable, Insert (020-050-142, 020-050-145, 020-050-199)	9910056800	020-050-130
Adapter, Quartz, 160 mm straight, 12/5 joints, male-male	7910052700	020-050-209
Torch Bonnet, (pk/2)	2010070700	020-050-143



Torch, Fixed, Radial,
0.8 mm, 12/5 joint
[020-050-002](#)



Bonnet, (PK of 2)
[020-050-143](#)



FREE PROMOTIONAL ITEM

**WITH EVERY SPRAY CHAMBER,
TORCH, NEBULIZER OR CONE!**

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ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

HORIBA® (JOBIN YVON®)

SPRAY CHAMBERS & ACCESSORIES



U-Drain Trap
Ground Joint
020-053-108



PTFE Insert
for Cyclonic Spray Chamber
020-053-316

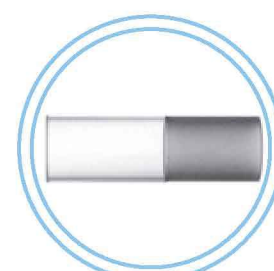
Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Cyclonic Spray Chamber, 50 ml, Borosilicate, 12/5 joint, 4 mm Drain, PTFE insert	47929056	020-053-106
Cyclonic Spray Chamber, 50 ml, Borosilicate, 12/5 joint, 4 mm Drain	---	020-060-129
Cyclonic Spray Chamber, 50 ml, Borosilicate, Axial	---	020-053-100
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12 mm Drain	---	020-050-177
Cyclonic Spray Chamber, 50 ml, Ground joint drain	---	020-053-107
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12/5 joint, 4 mm Drain	31030809	020-060-124
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12/5 joint, 4 mm Drain, Requires separate PTFE Insert (020-049-316)	---	020-071-081
Cyclonic Spray Chamber, 50 ml, Borosilicate, 12/5 joint, 4 mm Drain Requires separate PTFE Insert (020-049-316)	---	020-071-082
PTFE Insert for Cyclonic Spray Chamber	---	020-049-316
Scott Spray Chamber, Borosilicate, 12/5 joint, 12 mm Drain	---	020-053-101
Scott Spray Chamber, Quartz, 12/5 joint, 12 mm Drain	---	020-053-102
Scott Spray Chamber, Borosilicate, 12/5 joint, 4 mm Drain	---	020-053-103
Scott Spray Chamber, Quartz, 12/5 joint, Ground joint drain	---	020-053-104
Scott Spray Chamber, Borosilicate, 12/5 joint, 12 mm Drain, for 6 mm Nebulizer	---	020-053-105
Scott Spray Chamber, Borosilicate, Ground joint	31026996	020-050-036
Teflon® Adapter for JY with Radial Socket	31021730	020-051-404
U-Drain Trap, Ground joint	31026997	020-053-108
Teflon® End cap, for use with Scott Spray Chamber and 6 mm Nebulizers	---	020-060-601

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

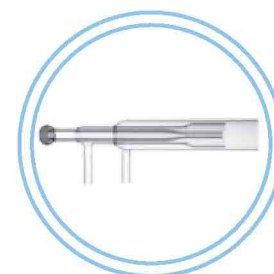
HORIBA® (JOBIN YVON®)

TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Torch, Fixed, Quartz, 1.5 mm 12/5 joint	49010100	020-053-001
Torch Kit, Demountable, Quartz, Complete	21356110	020-053-002
Torch, Body, Demountable	---	020-053-301
Torch Tube, Outer, Radial, Quartz, 71 mm	31023722	020-050-037
Torch Tube, Outer, Radial, Quartz, 82.5 mm	---	020-053-302
Torch Tube, Outer, Axial, Quartz 105 mm	31031099	020-053-303
Torch Tube, Quartz, Inner	31023723	020-050-038
Torch Centering Ring, Teflon®	31023724	020-050-039
Injector, Quartz	---	020-050-175
Injector, Quartz, 3.0 mm	---	020-050-510
Injector, Alumina, 3.1 mm	31021589	020-050-041
Injector, Alumina 3.1 mm w/ PTFE Holder	21356130	020-050-084
Injector Tube Holder, PTFE	31021730	020-050-040
Sheath Gas, PEEK, w/ Quick Conn.	20925160	020-053-376
Sheath Gas, Borosilicate, 12/5 joint, with Quick Conn.	---	020-053-377
Sheath Gas, Borosilicate, w/ Quick Conn.	21356040	020-050-176
O-ring for Injector (pk/5)	---	020-050-506
O-ring Kit (pk/8)	---	020-050-507
O-ring for Teflon® Insert (5)	---	020-050-508
O-ring for Torch Body (pk/4)	46702525	020-053-201
Torch, Extension	---	020-053-378
Torch, Bonnet (pk/2)	49010101	020-053-379



Torch Tube,
Quartz, Outer
[020-050-037](#)



Torch, Fixed, Quartz,
1.5 mm, 12/5 Joint
[020-053-001](#)

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

TELEDYNE LEEMAN LABS (LEEMAN®)

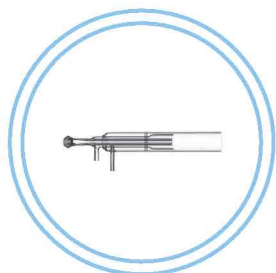
SPRAY CHAMBERS & ACCESSORIES



Jacketed Cyclonic Spray Chamber, Borosilicate
020-051-125

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, No Baffle, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Mini-Cyclonic Spray Chamber, 20 ml, Borosilicate, 12/5 joint, PTFE Insert	---	020-051-105
Cyclonic Spray Chamber, 50ml, Axial, Borosilicate, Baffle, 4 mm Drain, requires separate PTFE Insert (020-049-316)	---	020-071-041
PTFE Insert for Cyclonic Spray Chamber	---	020-049-316
Jacketed Cyclonic Spray Chamber, Borosilicate, 50 ml, 12/5 joint, 4 mm Drain	---	020-051-125
Scott Spray Chamber, Radial	1203751/3180017	020-050-055

TORCHES & ACCESSORIES



Torch, Fixed
2.5 mm (straight bore)
020-054-055

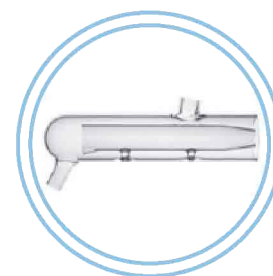
Description	OEM X-ref Number	Catalog No.
Torch, Fixed, Radial, 12/5 joint, Aqueous	120003361/1203748	020-050-053
Torch, Fixed, Radial, 12/5 joint, Organics	120003362/1203749	020-050-054
Torch, Fixed, 1.0 mm, Beveled End	3180016	020-050-050
Torch, Fixed, Tandem, Aqueous, 1.5 mm	31800026	020-050-056
Torch, Fixed, Tandem, Organic, 1.0 mm	31800027	020-050-057
Torch, Fixed, Organic, 12/5 joint, w/fittings	120003362	020-050-262
Torch, Fixed, 2.5 mm, 12/5 joint, w/fittings	120003363	020-050-083
Torch, Fixed, 2.5 mm (straight bore), 12/5 joint, w/fittings	120003091	020-054-055
Torch, Fixed, Axial, Aqueous, 12/5, 190 mm	31800062	020-054-057
Torch, Fixed, Aqueous, Dual View, DRE, 2.5 mm	31800065	020-054-002
Torch Body, Radial	1203017/3180001	020-050-059
Torch Body, Axial	31800069	020-054-056
Torch Body, DV, Demountable	31800070	020-054-003
Injector, Quartz, Capillary	---	020-050-052
Injector, Quartz, 1.2 mm	3180004	020-050-060
Torch Body, Aqueous, w/Injector	1203010	020-050-058
Quartz Opt Window/Purge Tube	1210034	020-050-178
Argon Hose with Fittings	3093311	020-054-065
Tube, Purge, V2, DV	31800067	020-054-302
Purge Tube for Radial	31800068	020-054-301

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

PERKINELMER® OPTIMA 3000 SERIES RL, SCR

SPRAY CHAMBERS & ACCESSORIES

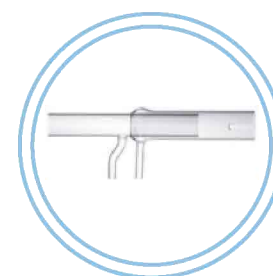
Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 4 mm drain	---	020-051-116
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 4 mm drain	---	020-060-128
Cyclonic Spray Chamber, 50 ml, Radial, Borosilicate, Baffle, 4 mm drain - For use with MLN	---	020-060-132
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12/5 joint, 4 mm drain, requires separate PTFE Insert (020-049-316)	N0771501	020-071-031
PTFE Insert for Cyclonic Spray Chamber	---	020-049-316
Scott Spray Chamber, Borosilicate, Type II	---	020-050-211
Drain Kit, 12 mm (Scott)	WE013119	020-050-089



Scott Spray Chamber,
Borosilicate, Type II
020-050-211

TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Torch, Fixed, 1 slot, Alumina, 2.0 mm	---	020-070-005
Torch Body	N0690568	020-050-181
Torch Body, Wear Metals	---	020-050-186
Injector, Quartz, 1.2 mm	N0681631	020-050-182
Injector, Quartz, 1.2 mm, Organics	---	020-054-503
Injector, Quartz, 1.6 mm	N0695448	020-050-238
Injector, Quartz, 2.0 mm	N0695441	020-050-234
Injector, Alumina, 0.85 mm	N8126039	020-051-316
Injector, Alumina, 1.5 mm	N0582185	020-051-314
Injector, Alumina, 2.0 mm	N8126041	020-050-256
Torch Bonnet, (pk/2)	N0695295	020-050-185
Torch Bonnet, Flat Edge (pk/2)	N0695456	020-050-204
O-ring Kit for Optima Torch (pk/5)	N0690269	020-050-523
O-ring Kit, PE®3000 (pk/5)	---	020-051-324
Purge Extension Window UV	N0581497	020-050-213

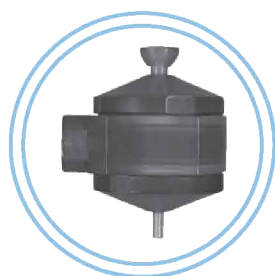


Torch Body
020-050-181

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

PERKINELMER® OPTIMA 3000 SERIES XL, SCX

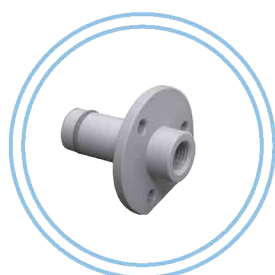
SPRAY CHAMBERS & ACCESSORIES



Spray Chamber
Cyclonic Ultem
020-051-111

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Adaptor, Ultem, 12 mm torch to 12/5 jointed Spray chamber	---	020-050-454
Cyclonic Spray Chamber, 50 ml, Borosilicate, 11.3 mm exit, 4 mm drain, PTFE insert	N8120150	020-051-141
Cyclonic Spray Chamber, 50 ml, Quartz, 11.3 mm exit, 4 mm drain, PTFE insert	N8122188	020-051-140
Jacketed Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 11.3 mm exit, 4 mm drain	---	020-051-134
Cyclonic Spray Chamber, 50 ml, Borosilicate, 12 mm exit, 4 mm drain	N8122188	020-050-109
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12 mm exit, 4 mm drain	---	020-050-248
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12 mm exit, 4 mm drain, Requires separate PTFE Insert (020-049-316)	N0776053	020-071-021
Cyclonic Spray Chamber, 50 ml, Borosilicate, 12 mm exit, 4 mm drain, Requires separate PTFE Insert (020-049-316)	N0776052	020-071-022
PTFE Insert for Cyclonic Spray Chamber	---	020-049-316

TORCHES & ACCESSORIES



Injector Support Adapter,
PEEK, for Scott Spray chamber
020-050-425

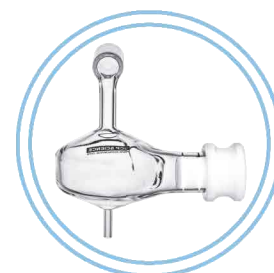
Description	OEM X-ref Number	Catalog No.
Torch, Fixed, Alumina, 2.0 mm	---	020-070-020
Torch, Fixed, 1-slot, Alumina, 2.0 mm	---	020-070-005
Torch body	N0695379	020-050-202
Injector, Quartz, 0.8 mm	---	020-050-243
Injector, Quartz, 1.2 mm	N0695460	020-050-242
Injector, Quartz, 1.2 mm Oil	---	020-054-513
Injector, Quartz, 1.6 mm	N0695449	020-050-240
Injector, Quartz, 2.0 mm	N0695442	020-050-203
Injector, Quartz, 2.0 mm, 109 mm length	N0695442	020-050-241
Injector, Alumina, 2.0 mm	N0695362	020-050-252
Injector Support Adapter, PEEK, for Scott Spray Chamber	N0695400	020-050-425
Injector Support Adapter, PEEK, for 12 mm torch, Cyclonic Spray Chamber	---	020-050-435
Injector Support Adapter, PEEK, for 12/5 socketed torch, Cyclonic Spray Chamber	---	020-050-445
Injector Support Adapter, PEEK, for 11.3 mm torch, Cyclonic Spray chamber	N0690780	020-050-450
Adaptor, Ultem, 12 mm torch to 12/5 jointed Spray chamber	---	020-050-454
Axial View Purge Extension Window	9992731	020-050-221
Bonnet, Dual View, (pk/2)	N0691664	020-050-207
O-ring Kit for PE® Optima DV	N0690769	020-051-311

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

PERKINELMER® OPTIMA 3000 SERIES DV

SPRAY CHAMBERS & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray , 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Adaptor, PEEK, 12 mm torch to 12/5 jointed spray chamber	---	020-050-455
Adaptor, Ultem, 12 mm torch to 12/5 jointed spray chamber	---	020-050-454
Cyclonic Spray Chamber, 50 ml, Borosilicate, 11.3 mm exit, 4 mm drain, PTFE insert	N8120150	020-051-141
Cyclonic Spray Chamber, 50 ml, Quartz, 11.3 mm exit, 4 mm drain, PTFE insert	N8122188	020-051-140
Jacketed Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 11.3 mm exit, 4 mm drain	---	020-051-134
Cyclonic Spray Chamber, 50 ml, Borosilicate, 12 mm exit, 4 mm drain	N8122188	020-050-109
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12 mm exit, 4 mm drain	---	020-050-248
Cyclonic Spray Chamber, 50 ml, tBorosilicate, 12 mm exit, for use with MLN	---	020-050-250
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12 mm exit, 4 mm drain, Requires separate PTFE Insert (020-049-316)	N0776053	020-071-021
Cyclonic Spray Chamber, 50 ml, Borosilicate, 12 mm exit, 4 mm drain, Requires separate PTFE Insert (020-049-316)	N0776052	020-071-022
PTFE Insert for Cyclonic Spray Chamber	---	020-049-316



Spray Chamber,
Cyclonic, Borosilicate
020-051-141



Spray Chamber,
Cyclonic, Borosilicate
020-050-248

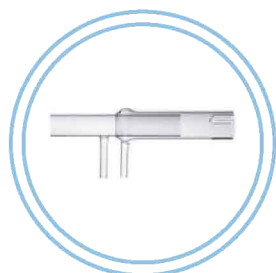
ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

PERKINELMER® OPTIMA 3000 SERIES DV

TORCHES & ACCESSORIES



Radial Purge Extension
Quartz Window, Optima 3000 DV
020-050-206



Torch Body, 3-Slots
020-050-249

Description	OEM X-ref Number	Catalog No.
Torch, Fixed, 1-slot, Alumina, 2.0 mm	---	020-070-005
Torch Body, 1-slot	N0691662	020-050-246
Torch Body, 1-slot, Wear Metals	---	020-050-247
Torch Body, 2-slots	---	020-050-200
Torch Body, 3-slots	---	020-050-249
Injector, Quartz, 0.8 mm	---	020-050-243
Injector, Quartz, 1.2 mm	N0695460	020-050-242
Injector, Quartz, PE® 1.2 mm Oil	---	020-054-513
Injector, Quartz, 1.6 mm	N0695449	020-050-240
Injector, Quartz, 2.0 mm	N0695442	020-050-203
Injector, Alumina, 2.0 mm	N0695362	020-050-252
Injector Support Adapter, PEEK, for Scott Spray Chamber	N0695400	020-050-425
Injector Support Adapter, PEEK, for 12 mm torch, Cyclonic Spray Chamber	---	020-050-435
Injector Support Adapter, PEEK, for 11.3 mm torch, Cyclonic Spray Chamber	N0690780	020-050-450
Adaptor, Ultem, 12 mm torch to 12/5 jointed Spray Chamber	---	020-050-454
O-ring Kit for PE® Optima DV	N0690769	020-051-311
Radial Purge Extension Quartz Window, Optima 3000 DV	N0691689	020-050-206
Axial View Purge Extension Window, Optima 3000DV	N0691678	020-050-208
Bonnet, Dual View, (pk/2)	N0691664	020-050-207



FREE PROMOTIONAL ITEM

**WITH EVERY SPRAY CHAMBER,
TORCH, NEBULIZER OR CONE!**

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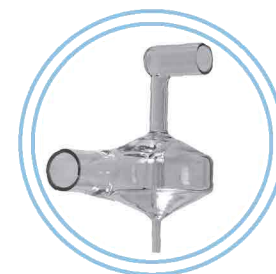
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ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

PERKINELMER® OPTIMA 2X00/4X00/5X00/7X00 DV SERIES

SPRAY CHAMBERS & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Adaptor, PEEK, 12 mm torch to 12/5 jointed spray chamber	---	020-050-455
Adaptor, Ultem, 12 mm torch to 12/5 jointed spray chamber	---	020-050-458
Mini Cyclonic Spray Chamber, 20 ml, Borosilicate, 12/5 joint, 4 mm drain	---	020-051-107
Cyclonic Spray Chamber, 50 ml, Quartz, 12 mm exit, 4 mm drain, PTFE insert	N0776052Q	020-051-154
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12 mm exit, 4 mm drain, PTFE insert	N0776090	020-051-138
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12 mm exit, 4 mm drain, Requires separate PTFE Insert (020-049-316)	N0776053	020-071-021
Cyclonic Spray Chamber, 50 ml, Borosilicate, 12 mm exit, 4 mm drain, Requires separate PTFE Insert (020-049-316)	N0776052	020-071-022
PTFE Insert for Cyclonic Spray Chamber	---	020-049-316
Teflon® Adaptor, PE® 2000/4000	---	020-051-409



Spray Chamber,
Cyclonic, Borosilicate
[020-051-138](#)

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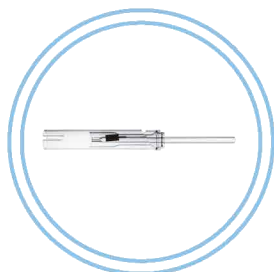
ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

PERKINELMER® OPTIMA 2X00/4X00/5X00/7X00 DV SERIES

TORCHES & ACCESSORIES



Radial Purge Extension Window (short tube)
020-050-254



Torch, Fixed, 1-slot, Quartz
020-051-007

Description	OEM X-ref Number	Catalog No.
Torch, Fixed, 1-slot, Quartz, 0.8 mm	---	020-051-007
Torch, Fixed, 1-slot, Quartz, 1.2 mm	---	020-051-008
Torch, Fixed, 1-slot, Quartz, 1.6 mm	---	020-051-009
Torch, Fixed, 1-slot, Quartz, 2.0 mm	---	020-051-004
Torch, Fixed, 1-slot, Alumina, 1.2 mm	---	020-070-016
Torch, Fixed, 1-slot, Alumina, 2.0 mm	---	020-070-022
Torch Body, 0-slot	N0770343	020-051-006
Torch Body, 0-slots, Short Version, PE® 2x00/4x00/5x00/7x00 DV	N0770344	020-051-098
Torch Body, 1-slot	N0770338	020-051-002
Torch Body, 3-slots, for PE® 2x00/4x00/5x00/7x00 DV	N0772005	020-051-010
Injector, Quartz, 0.8 mm	N0775225	020-051-310
Injector, Quartz, 1.0 mm, w/o Taper	---	020-051-323
Injector, Quartz, 1.2 mm	N0775226	020-051-308
Injector, Quartz, 1.6 mm	N0775223	020-051-306
Injector, Quartz, 2.0 mm	N0775014	020-051-302
Injector, Quartz, 3.0 mm	N0775224	020-051-304
Injector, Alumina, 0.8 mm	N0775227	020-051-317
Injector, Alumina, 1.2 mm	N0775228	020-051-318
Injector, Alumina, 1.2 mm, PE® 4x00 Axial	N0776093	020-054-515
Injector, Alumina, 2.0 mm	N0775177	020-051-319
Injector, Alumina, 2.0 mm, 87 mm length	---	020-051-322
Injector Support Adapter, Fixed Torch, 12 mm Spray chamber exit	---	020-050-426
Copper Strip (pk/12)	N0775297	020-051-001
O-ring, Kit for Torch	N0770437	020-050-513
Radial Purge Extension Window (short tube)		020-050-254
Radial Purge Extension Window	N0770322	020-051-256
Radial Purge Tube Window, Frosted	N0770944	020-051-258
Axial View Purge Extension Window	9992731	020-050-221
Torch Bonnet (pk/2)	N0775289	020-051-350

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

PERKINELMER® OPTIMA 4300V / 5300V / 7300V SERIES

SPRAY CHAMBERS & ACCESSORIES

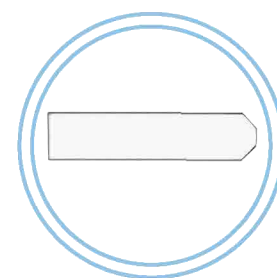
Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Adaptor, PEEK, 12 mm torch to 12/5 jointed spray chamber	---	020-050-455
Adaptor, Ultem, 12 mm torch to 12/5 jointed spray chamber	---	020-050-454
Cyclonic Spray Chamber, 50 ml, Quartz, Baffle, 12/5 joint, 4 mm drain, Requires separate PTFE Insert (020-049-318)	---	020-071-131
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12/5 joint, 4 mm drain, Requires separate PTFE Insert (020-049-316)	N0771501	020-071-031
Cyclonic Spray Chamber, 50 ml, Borosilicate, 12/5 joint, 4 mm drain, Requires separate PTFE Insert (020-049-316)	---	020-071-032
PTFE Insert for Cyclonic Spray Chamber	---	020-049-316



Spray Chamber, Cyclonic
020-071-031

TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Torch, Fixed, 1 slot, Alumina, 2.0 mm	---	020-070-005
Torch Body, 3-slots	N0771500	020-051-005
Torch Body, 3-slots, Extended Life, Organics		020-051-016
Injector, Quartz, 0.8 mm, Organics	N0695461	020-054-517
Injector, Quartz, 1.2 mm	N0695460	020-050-242
Injector, Quartz, 1.6 mm	N0695449	020-050-240
Injector, Quartz, 1.8 mm	---	020-051-312
Injector, Quartz, 1.8 mm, 83 Length	---	020-051-307
Injector, Alumina, 1.2 mm	N0771531	020-050-258
O-ring for Injector (pk/5)	---	020-050-514
O-ring Kit for Torch	N0770916	020-050-516
Purge Extension Window UV	N0581497	020-050-213
Copper Strip (pk/10)	N0775297	020-051-001



Purge Extension Window
020-050-513

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

PERKINELMER® OPTIMA 8300-DV

SPRAY CHAMBERS & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Cyclonic Spray Chamber, 50 ml, Borosilicate, 12 mm exit, 4 mm drain, Requires separate PTFE Insert (020-049-316)	N0776052	020-071-022
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12 mm exit, 4 mm drain, Requires separate PTFE Insert (020-049-316)	N0776053	020-071-021
PTFE Insert for Cyclonic Spray Chamber	---	020-049-316
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12 mm exit, 4 mm drain, with PTFE insert	N0776090	020-051-138
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12/5 joint, 4 mm drain, with PTFE insert	N0771501	020-051-126
Mini Cyclonic Spray Chamber, 20 ml, Borosilicate, 12/5 joint, 4 mm drain	---	020-051-107

TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Torch Body, 8X00 DV, 1 slots	N0780130	020-051-015
Torch Body, 8X00 DV, 3 slots	N0780132	020-051-014
Injector, Quartz, 0.8 mm	N0781018	020-051-332
Injector, Quartz, 1.2 mm	N0781019	020-051-333
Injector, Quartz, 1.6 mm	N0781016	020-051-334
Injector, Quartz, 2.0 mm	N0781050	020-051-335
Injector, Quartz, 3.0 mm	N0781017	020-051-336
Injector, Alumina, 0.8 mm	N0781009	020-051-330
Injector, Alumina, 1.2 mm	N0781015	020-051-331
Injector, Alumina, 2.0 mm	N0781014	020-051-326
Purge Ext. Window, Opt 2000	N0690672	020-051-321
Purge Window, Short Radial	N0690672, N0691646	020-050-254
Purge Viewing Window, XL	09992731	020-050-221
Axial Purge Window	N0771116	030-050-158
Radial Purge Window, Frosted	N0770944	020-051-258

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

PERKINELMER® ELAN 5000/6000/9000 SERIES

SPRAY CHAMBERS & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Cyclonic Spray Chamber, 50 ml, Borosilicate, 11.3 mm exit, 4 mm drain	N8120150	020-051-119
Cyclonic Spray Chamber, 50 ml, Borosilicate, 11.3 mm exit, 4 mm drain, PTFE Insert	N8120150	020-051-141
Cyclonic Spray Chamber, 50 ml, Quartz, 11.3 mm exit, 4 mm drain	---	020-051-120
Cyclonic Spray Chamber, 50 ml, Quartz, 12/5 joint, 4 mm drain	---	020-051-011
Cyclonic Spray Chamber, 50 ml, Quartz, Baffle, 12/5 joint, 4 mm drain	WE025221	020-051-136
Cyclonic Spray Chamber, 50 ml, Quartz, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	WE025221	020-051-132
Jacketed Cyclonic Spray Chamber, 50 ml, Quartz, 4 mm drain	---	020-051-121
Scott Spray Chamber, Borosilicate, 12/5 joint, gravity drain	---	020-050-073
Scott Spray Chamber, Quartz, 12 mm exit, gravity drain	---	020-050-074
Jacketed Scott Spray Chamber, Borosilicate, 12/5 joint, gravity drain	---	020-050-075
Gravity drain kit for Scott Spray Chamber	WE013119	020-050-089



Jacketed Cyclonic
Spray Chamber
020-051-121

TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Torch, Fixed, Quartz, 12/5 joint	472048	020-051-003
Torch, Fixed, Quartz, Short (135 mm)	N8102001	020-050-070
Torch, Fixed, Quartz, Long (150 mm)	---	020-050-071
Torch Body, Type I	N0580233	020-050-064
Torch Body, 0-slot	N8122006	020-050-072
Injector, Quartz, 1.2 mm	N0681631	020-050-182
Injector, Quartz, 1.6 mm	473292	020-050-183
Injector, Quartz, 2.0 mm	N8125029	020-050-184
Injector, Quartz, 2.0 mm - Type I	---	020-050-010
Injector, Alumina, 1.5 mm	N0582185	020-051-314
Injector, Alumina, 2.0 mm	N0582184 / N8126041	020-050-256
Injector Support/Torch Base	N8120116 / N8122007	020-051-353
Torch O-ring kit (pk/4)	N8120100	020-051-096
Torch Extension, Slotted	---	020-050-061
Torch Extension, w/optical port	---	020-051-305
Torch Purge Tube	473187	020-050-218
Torch Purge Tube, for Slotted Extension	473561	020-050-217
Torch Bonnet, Type 1 (pk/2)	472033	020-051-309



Bonnet for Torch
Type 1
020-051-309

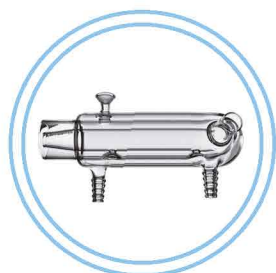
ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

PERKINELMER® ELAN 6100DRC, DRC II, DRC-E

SPRAY CHAMBERS & ACCESSORIES



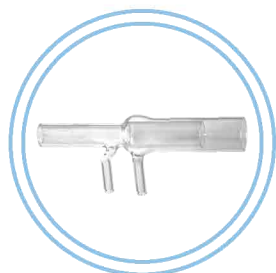
Scott Spray Chamber,
Quartz
020-050-074



Jacketed Scott,
Spray Chamber
020-050-075

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Cyclonic Spray Chamber, 50 ml, Borosilicate, 11.3 mm exit, 4 mm drain	N8120150	020-051-119
Cyclonic Spray Chamber, 50 ml, Borosilicate, 11.3 mm exit, 4 mm drain, PTFE Insert	N8120150	020-051-141
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 11.3 mm exit, 4 mm drain. Requires separate PTFE Insert (020-049-316)	N8120150	020-071-051
PTFE Insert for Cyclonic Spray Chamber	---	020-049-316
Cyclonic Spray Chamber, 50 ml, Quartz, 11.3 mm exit, 4 mm drain	---	020-051-120
Cyclonic Spray Chamber, 50 ml, Quartz, Baffle, 12/5 joint, 4 mm drain	WE025221	020-051-136
Cyclonic Spray Chamber, 50 ml, Quartz, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	WE025221	020-051-132
Mini-Cyclonic Spray Chamber, 20 ml, Borosilicate, 12/5 joint, 4 mm drain	---	020-051-106
Jacketed Cyclonic Spray Chamber, 50 ml, Quartz, 4 mm drain	---	020-051-121
Scott Spray Chamber, Borosilicate, 12/5 joint, gravity drain	---	020-050-073
Scott Spray Chamber, Quartz, 12 mm exit, gravity drain	---	020-050-074
Jacketed Scott Spray Chamber, Borosilicate, 12/5 joint, gravity drain	---	020-050-075
Gravity drain kit for Scott Spray Chamber	WE013119	020-050-089

TORCHES & ACCESSORIES



Torch Body, 0-slot, O-ring free
020-050-087

Description	OEM X-ref Number	Catalog No.
Torch Body, 0-slot	N8122006	020-050-072
Torch Body, 0-slot, O-ring free	ES11021000	020-050-087
Torch Body, 0-slot, High Efficiency	W1008384	020-050-462
Torch, Fixed, Quartz, Long (151 mm)	---	020-051-099
Injector, Quartz, 2.0 mm	WE023948	020-051-355
Injector, Quartz, 1.5 mm	WE027005	020-051-357
Injector Support, DRC	WE023951	020-051-359

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

PERKINELMER® NEXION ICP-MS

SPRAY CHAMBERS, TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, O-ring less, ball-joint, 4 mm drain	N8145014	020-070-050
Cyclonic Spray Chamber, 50 ml, Quartz, Baffle, O-ring less, ball-joint, 4 mm drain	N8145013	020-051-197
Torch Body, 0-slot	N8122006	020-050-072
Injector, Quartz, 1.2 mm	N0681631	020-050-182
Injector, Quartz, 1.6 mm	N0473292	020-050-183
Injector, Quartz, 2.0 mm	N8120529	020-050-184
Injector, Alumina, 0.85 mm	N8126039	020-051-316
Injector, Alumina, 1.5 mm	N8126040/N0582185	020-051-314
Injector, Alumina, 2.0 mm	N05282184/N8126041	020-050-256

SPECTRO ANALYTICAL EOP

SPRAY CHAMBERS & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12/5 joint, 13 mm drain	---	020-055-100
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12/5 joint, 4 mm drain, for MLN	---	020-060-126
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12/5 joint, 13 mm drain, for MLN	---	020-060-130
Scott Spray Chamber, Double Pass, Borosilicate, Long 90° exit, 12/5 joint, 8mm drain	48105051	020-055-120
Scott Spray Chamber, Double Pass, Borosilicate, 12/5 joint, 14/20 ground joint drain	48105006	020-050-095

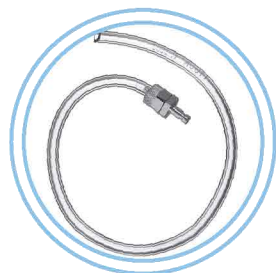


Cyclonic Spray Chamber
Borosilicate
020-055-100

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

SPECTRO ANALYTICAL EOP

TORCHES & ACCESSORIES



Gas Adaptor Set
for SPECTRO Fixed Torch
020-055-051



HF Holder, SPECTRO
020-050-233

Description	OEM X-ref Number	Catalog No.
Torch, Fixed, Quartz, 1.8 mm, 12/5 joint, Flared	48105052A	020-055-013
Torch, Fixed, Quartz, 1.8 mm, 12/5 joint, Flared, w/sheath gas	75160549	020-055-015
Torch, Fixed, Quartz, 2.5 mm, 12/5 joint, Flared, w/fittings	75160526	020-055-021
Torch, Fixed, Quartz, 2.5 mm, 12/5 joint, Flared	44302072 / 44302077 / 48105052	020-050-230
Torch, Fixed, Quartz, 2.5 mm, 12/5 joint, Flared, w/sheath gas	75160537	020-050-226
Torch, Fixed, Quartz, 3.0 mm, 12/5 joint, Flared, w/sheath gas	75260533	020-050-229
Torch, Fixed, Quartz, 3.2 mm, 12/5 joint, Flared, w/sheath gas	---	020-050-264
Torch, Fixed, Alumina, 2.0 mm, 12/5 joint, Flared	---	020-070-015
Torch, Fixed, Alumina, 1.2 mm, 12/5 joint, Flared	---	020-070-017
Torch Body, Demountable	480206007	020-050-232
Torch Body, Demountable w/GL14 end	48105064 / 75260561	020-055-025
Torch Body, Demountable w/GL14 end, w/1.8 mm Quartz injector	75260558	020-055-023
Adapter, Alumina, GL14-12/5	44502001	020-055-026
Injector, Quartz, 1.2 mm	48105071	020-050-251
Injector, Quartz, 1.5 mm, 12/5 joint	48105008	020-050-096
Injector, Quartz, 1.8 mm	48105072	020-050-257
Injector, Quartz, 2.5 mm	48105073	020-050-253
Injector, Quartz, 2.5 mm w/ 12/5 joint	48105058	020-050-260
Injector, Alumina, 1.8 mm w/O-ring	48807015	020-050-259
Injector, Alumina, 2.5 mm w/O-ring	48807016	020-050-255
HF Holder	75160538	020-050-233
Adapter, Ultem, 7.0 mm i.d. to 6.2 mm o.d.	---	020-050-440
Adapter, Spray Chamber to Injector, 8 mm O.D, 12/5 joint, Ultem	---	020-050-452
Adapter, Ultem, 6.2 mm o.d. to 12/5 joint	---	020-050-459
Adapter Kit for SPECTRO Axial ICP	---	020-051-420
Gas Adaptor Set for SPECTRO Fixed Torch	---	020-055-051
Adapter, Borosilicate, 90°, 90x128 mm height, 12/5 female to 12/5 male	48105002	020-055-311
Adapter, Borosilicate, 90°, 38x108 mm height, 12/5 female to 12/5 male	48105062	020-060-150

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches) SPECTRO ANALYTICAL SOP

SPRAY CHAMBERS & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12/5 joint, 13 mm drain	---	020-055-100
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12/5 joint, Short O-ring adaptor, 4mm drain	---	020-050-086
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12/5 joint, 13 mm drain, for MLN	---	020-060-130
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12/5 joint, 4 mm drain - long, for MLN	---	020-060-131
Jacketed Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 12/5 joint, 4mm drain	---	020-055-121
Scott Spray Chamber, Double Pass, Borosilicate, 12/5 joint, 14/20 ground joint drain	48105006	020-050-095
Scott Spray Chamber, Double Pass, Borosilicate, Long 90° exit, 12/5 joint, 8mm drain	48105051	020-055-120

TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Torch, Fixed, Quartz, 1.0 mm, 12/5 joint	48205001	020-055-010
Torch, Fixed, Quartz, 1.8 mm, 12/5 joint	75060596	020-050-090
Torch, Fixed, Quartz, 2.5 mm, 12/5 joint	---	020-050-092
Torch, Fixed, Alumina, 1.2 mm, 12/5 joint	---	020-070-012
Torch, Fixed, Alumina, 1.2 mm, 12/5 joint, Spectroflame	---	020-070-014
Torch, Fixed, Alumina, 2.0 mm, 12/5 joint	---	020-070-011
Torch, Fixed, Alumina, 2.0 mm, 12/5 joint, Spectroflame	---	020-070-013
Torch Body	48206002	020-050-091
Torch Body, w/ GL14	48105068	020-055-024
Injector, Quartz, 1.2 mm, w/O-ring	48105071	020-050-251
Injector, Quartz, 1.8 mm, w/O-ring	48105072	020-050-257
Injector, Quartz, 1.8 mm, 12/5 joint	48105010	020-050-188
Injector, Quartz, 2.5 mm, w/O-ring	48105073	020-050-253
Injector, Quartz, 2.5 mm, 12/5 joint	48105009	020-050-189
Injector, Alumina, 2.5 mm, w/O-ring	48807016	020-050-255
Injector, Alumina, 1.8 mm w/O-ring	48807015	020-050-259
Adapter, Spray Chamber to Injector, 8 mm O.D, 12/5 joint, Ultem	---	020-050-452
Gas Adaptor Set for SPECTRO Fixed Torch	---	020-055-051
O-ring Kit	---	020-055-321

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

SHIMADZU®

SPRAY CHAMBERS, TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Borosilicate, 12/5 joint, 14/20 ground joint drain	460009302	020-054-406
Torch, Fixed, Quartz, 1.0 mm, 12/5 joint	20477296	020-054-403
Torch, Fixed, Quartz, 1.5 mm, 12/5 joint	20470272	020-054-401
Torch, Fixed, Quartz, 1.8 mm, 12/5 joint	20474323	020-054-405

THERMO® (TJA) - 61E, IRIS, INTREPID - RADIAL

SPRAY CHAMBERS & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Adaptor, Ultem, for 12/5 joint Spray Chamber to Radial Torch	---	020-050-451
Cyclonic Spray Chamber, 50 ml, Borosilicate, 12/5 joint, 4 mm drain	---	020-051-129
Cyclonic Spray Chamber, 50 ml, Borosilicate, 12/5 joint, 4 mm drain, PTFE insert	---	020-051-429
Cyclonic Spray Chamber, 50 ml, Borosilicate, 40 mm neck, 4 mm drain	13966300	020-051-123
Cyclonic Spray Chamber, 50 ml, Borosilicate, 40 mm neck, 10 mm drain	13610500	020-051-108
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 40 mm neck, 4 mm drain, PTFE insert	---	020-051-030
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 80 mm neck, 4 mm drain, PTFE insert	---	020-051-101

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

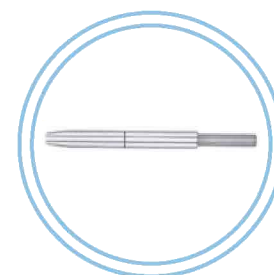
THERMO® (TJA) - 61E, IRIS, INTREPID - RADIAL

TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Torch, 0-slot, Ceramic Base, High Flow, Quartz Injector, 1.0 mm, Organics	12512401	020-050-125
Torch, 0-slot, Ceramic Base, High Flow, Quartz Injector, 1.5 mm	12643201	020-050-124
Torch, 0-slot, Ceramic Base, High/Low Flow, Quartz Injector, 1.5 mm	12643202	020-050-123
Torch, 0-slot, Ceramic Base, High Flow, Quartz Injector 1.5 mm, 1 Red Line	12643203	020-050-192
Torch, 0-slot, Ceramic Base, High Flow, Alumina Injector 1.5 mm	12717901	020-049-000
Torch, 1-slot, Ceramic Base, Quartz Injector 1.5 mm, 1 Red Line	12643204	020-051-196
Torch Body, 0-slot, Ceramic Base	12644003	020-051-193
Torch Body, 0-slot, Ceramic Base, High Flow	12644001	020-050-137
Torch Outer Tube	14110100	020-057-505
Torch Inner Tube	14110000	020-057-508
Injector, Quartz, 1.0 mm, PT2000	14110600	020-057-501
Injector, Quartz, 1.0 mm, 2 Red lines, VOC	12540701	020-050-118
Injector, Quartz, 1.5 mm, 1 Red line	12540700	020-050-119
Injector, Quartz, 1.8 mm, Tapered	14110500	020-057-500
Injector, Quartz, 2.0 mm, 1 Blue line	13650201	020-051-340
Injector, Quartz, 2.4 mm, 2 Blue lines	13650202	020-051-344
Injector, Alumina, 1.0 mm	---	020-049-302
Injector, Alumina, 1.5 mm	13643601	020-051-300
Argon Inlet Connector (pk/2)	---	020-051-200
O-ring for TJA Injector Tube	12584700	020-051-346
Anti-Arc Cap	8520700	020-049-303
Anti-Arc Cap, Flat Edge	8520701	020-050-127



Torch, Ceramic Base, High Flow
020-049-000



Tip, Injector, Quartz, Aqueous single red
020-050-119



FREE PROMOTIONAL ITEM

**WITH EVERY SPRAY CHAMBER,
TORCH, NEBULIZER OR CONE!**

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FOR MORE INFORMATION SALES@SCPSCIENCE.COM

ICP Sample Introduction (Spray Chambers & Torches)

THERMO® (TJA) - ADVANTAGE, IRIS, INTREPID, TRACE - AXIAL

SPRAY CHAMBERS & ACCESSORIES



Scott Spray Chamber, 19/9 joint-
long neck, 10 mm drain
020-050-113

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Cyclonic Spray Chamber, Borosilicate, 50 ml, 9.5 mm Axial exit, 10 mm drain	13462000	020-050-191
Cyclonic Spray Chamber, Borosilicate, 50 ml, 9.5 mm Axial exit, 4 mm drain	13966200	020-051-195
Cyclonic Spray Chamber, Borosilicate, 50 ml, 9.5 mm Axial exit (100 mm), 4 mm drain, PTFE insert	14451500	020-051-296
Cyclonic Spray Chamber, Borosilicate, 50 ml, 12/5 joint, 4 mm drain	---	020-051-129
Cyclonic Spray Chamber, Borosilicate, 50 ml, 12/5 joint, 4 mm drain, PTFE insert	---	020-051-429
Scott Spray Chamber, Borosilicate, 19/9 joint - long neck, 10 mm drain	19040065	020-050-113
Scott Spray Chamber, Borosilicate, 19/9 joint - short neck, 10 mm drain	12794700	020-050-114
Baffle, Teflon® for Scott Spray Chamber	---	020-050-069

TORCHES & ACCESSORIES



Torch Demountable
with Injector
020-050-111

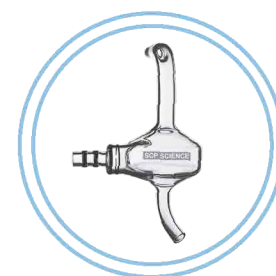
Description	OEM X-ref Number	Catalog No.
Torch, Fixed, Quartz, Low Flow	---	020-050-121
Torch, Demountable, w/ Quartz injector, 1.0 mm	19040054	020-050-110
Torch, Demountable, w/ 2x Quartz injector, 1.0 mm	---	020-050-111
Torch Extension, w/optical Port	---	020-049-301
Injector, Quartz, 1.0 mm, PT2000	14110600	020-057-501
Injector, Quartz, 1.0 mm, 2 Red lines, VOC	12540701	020-050-118
Injector, Quartz, 1.5 mm, 1 Red line	12540700	020-050-119
Injector, Quartz, 2.0 mm, 1 Blue line	13650201	020-051-340
Injector, Quartz, 2.4 mm, 2 Blue lines	13650202	020-051-344
Injector, Alumina, 1.0 mm	---	020-049-302
Injector, Alumina, 1.5 mm	13643601	020-051-300
Adapter, Ultem, 12/5 Spray Chamber to TJA Axial torch	---	020-050-453
Torch Bonnet (pk/2)	19040075	020-049-300

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

THERMO® (TJA) - IRIS DUO

DUO SPRAY CHAMBERS & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Cyclonic Spray Chamber, Borosilicate, 50 ml, 9.5 mm Axial exit, 10 mm drain	13462000	020-050-191
Cyclonic Spray Chamber, Borosilicate, 50 ml, 9.5 mm Axial exit, 4 mm drain	13966200	020-051-195
Cyclonic Spray Chamber, Borosilicate, 50 ml, 9.5 mm Axial exit - 58 mm long, 10 mm drain	13612000	020-051-112
Cyclonic Spray Chamber, Borosilicate, 50 ml, Baffle, 12/5 joint, 4 mm drain, PTFE insert	---	020-051-229
Cyclonic Spray Chamber, Borosilicate, 50 ml, 12/5 joint, 4 mm drain, PTFE insert	---	020-051-429



Cyclonic Spray Chamber,
9.5 mm Axial exit - 58 mm long,
10 mm drain
[020-051-112](#)

DUO TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Torch, Ceramic Base, Optical Port, Quartz Injector, 1.5 mm	13769400 / 13856200	020-051-192
Torch, Ceramic Base, Optical Port	12644005	020-051-194
Torch Body, PT2000	14278200	020-057-506
Torch Outer Tube, PT2000	14110100	020-057-505
Torch Inner Tube, PT2000	14110000	020-057-508
Injector, Quartz, 1.0 mm, PT2000	14110600	020-057-501
Injector, Quartz, Tapered, 1.8 mm	14110500	020-057-500
Injector, Quartz, 1.5 mm	14385700	020-057-510
Optic Sleeve for DV Torch	13768900 / 13856300	020-049-304
Seal for Optic Sleeve	---	020-049-314



Torch, Ceramic Base,
Optical Port
[020-051-192](#)

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches)

THERMO® iCAP™ 6X00

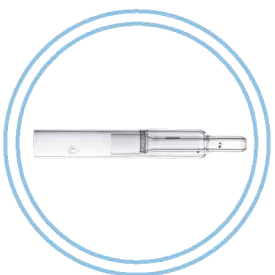
SPRAY CHAMBERS & ACCESSORIES



Spray Chamber, Ultem,
Cyclonic, PTFE Insert
020-051-111

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Adaptor, 90°, Ultem, 12/5 Spray Chamber to 9.5 mm Torch	---	020-050-456
Adapter, Ultem, 12/5 Spray Chamber to Radial Torch	---	020-050-457
Cyclonic Spray Chamber, 50 ml, Borosilicate, 18/9 joint, 4 mm drain	842312051411	020-050-001
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 18/9 joint, 4 mm drain	842312051311	020-049-003
Cyclonic Spray Chamber, 50 ml, Borosilicate, 18/9 joint, 4 mm drain. Requires separate PTFE Insert (020-049-316)	---	020-071-002
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 18/9 joint, 4 mm drain, Requires separate PTFE Insert (020-049-316)	---	020-071-001
PTFE Insert for Cyclonic Spray Chamber	---	020-049-316
Jacketed Cyclonic Spray Chamber, 50 ml, Borosilicate, 18/9 joint, 10 mm drain	---	020-057-124
Jacketed Cyclonic Spray Chamber, 50 ml, Quartz, 18/9 joint, 10 mm drain	---	020-057-125
Jacketed Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 18/9 joint, 4 mm drain	842312051441	020-049-004
Adaptor, 90°, Borosilicate, 18/9 Spray Chamber to 9.5 mm Torch	842312051251	020-050-103

TORCHES & ACCESSORIES



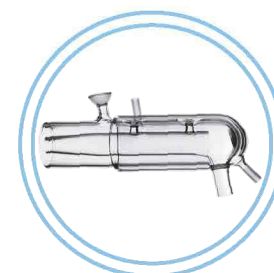
Torch, Duo, iCAP™
020-049-001

Description	OEM X-ref Number	Catalog No.
Torch, Duo, iCAP™	842312051241	020-049-001
EMT Torch for iCAP™ 6000 Duo	---	020-049-005
Injector, EMT, 1.5 mm	842312051951	020-049-105
Injector, EMT, 2.0 mm	842312051971	020-049-106
Injector, EMT, 1.0 mm	842312051941	020-049-107
Injector, Alumina EMT, 1.2 mm	---	020-049-108
Injector, Alumina EMT, 2.0 mm	---	020-049-109
Injector, Alumina, 2.0	---	020-050-122

ICP-OES / ICP-MS Sample Introduction (Spray Chambers & Torches) THERMO® X-SERIES ICP-MS

SPRAY CHAMBERS, TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Jacketed Scott Spray Chamber, Double-pass, Borosilicate, 12/5 joint, gravity drain	4600508	020-050-032
Torch, Fixed, Quartz, 1.5 mm, 12/5 joint	3600969	020-056-316
Torch, Fixed, Quartz, 2.0 mm, 12/5 joint	3601147	020-056-318
Torch Shield, Quartz	3601149	020-056-311

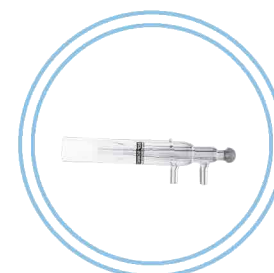


Jacketed Scott
Spray Chamber
020-050-032

ANALYTIK JENA - (BRUKER/VARIAN) 800-MS SERIES

SPRAY CHAMBERS, TORCHES & ACCESSORIES

Description	OEM X-ref Number	Catalog No.
Cyclonic Spray Chamber, 50 ml, Ultem, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-111
Cyclonic Spray Chamber, 50 ml, Ultem, Baffle, 12/5 joint, 4 mm drain, PTFE Insert	---	020-051-211
Cyclonic Spray Chamber, 50 ml, Borosilicate, 8 mm exit, 4 mm drain Requires separate PTFE Insert (020-049-316)	---	020-071-062
PTFE Insert for Cyclonic Spray Chamber	---	020-049-316
Cyclonic Spray Chamber, 50 ml, Borosilicate, Baffle, 8 mm exit, 4 mm drain, PTFE insert	---	020-054-165
Cyclonic Spray Chamber, 50 ml, Quartz, Baffle, 90° 12 mm exit, 4 mm drain, for use with Pelletier Cooler	---	020-056-300
Scott Spray Chamber, Borosilicate, Double pass, 12/5 joint, 10 mm drain	2010101000	020-054-163
Scott Spray Chamber, Quartz, Double pass, 12/5 joint, 7 mm drain	---	020-056-126
Torch, Fixed, Quartz, 2.4 mm, 12/5 joint	2010100700	020-054-312



Torch, Fixed,
Quartz
020-054-312

UNIVERSAL SAMPLE INTRODUCTION SYSTEMS

Applications from ultra clean waters to waste waters and rock samples.

MINI X-FLOW UNIVERSAL ICP NEBULIZER

SCP SCIENCE manufactures a full range of glassware and quartzware to keep your ICP-OES/ICP-MS instrument running. New and innovative products are available for enhancing signal, lowering background and improving detection limits.

The Mini X-Flow nebulizer is part of a new family of **SCP SCIENCE** ICP nebulizers, spray chambers and torches offering versatility unmatched in today's analytical market. With the Mini X-Flow nebulizer, one can enjoy optimal performance while, at the same time, eliminate nebulizer changes for different sample types.

Whether your samples are clean waters, suspensions, sludges or samples with high dissolved solids, the Mini X-Flow nebulizer can handle them all - with the best performance. Manufactured from acid resistant Ultem plastic and a platinum iridium sample inlet coupled to a sapphire crystal, the Mini X-Flow nebulizer may run samples in any acid matrix (including hydrofluoric acid). The Mini X-Flow nebulizer is designed to be used with specific Teflon[®], insert-ready, **SCP SCIENCE** cyclonic spray chambers.



OPERATIONAL SPECIFICATIONS

Sample Flow Rate:	0.8 - 3.0 ml / min
Argon Gas Flow Rate:	1.0 L / min
Operating Pressure:	25-40 psi

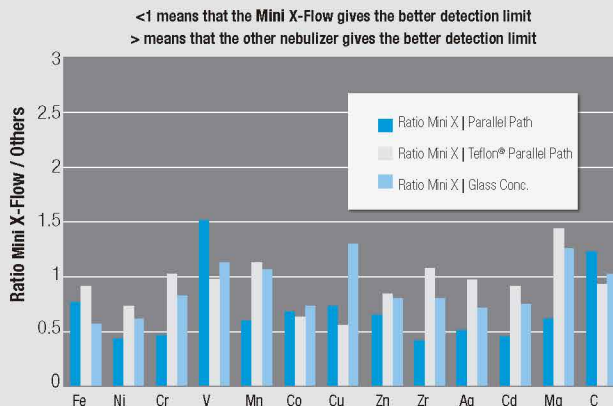
MINI X-FLOW PERFORMANCE

A comparison of the Mini X-Flow nebulizer detection limits with those of other popular nebulizers. Included in the study were glass concentric and Teflon[®] parallel path nebulizers. Results show equal to, or better detection limits using the Mini X-Flow nebulizer.

For high solid samples, the Mini X-Flow nebulizer provides excellent performance for solutions containing as high as 30% TDS (Total dissolved solids).

Tests prove the Mini X-Flow's superior performance over a wide range of elements in varying solids concentrations.

Comparison of the Detection Limits for the Mini X-Flow and Other Nebulizers



ULTEM SPRAY CHAMBER

The Ultem spray chamber can also be supplied with a Teflon® insert for use with 6 mm diameter concentric or parallel path nebulizers. The Mini X-Flow fits directly onto the spray chamber inlet port. This inert spray chamber is unique because it is made of 3 components (a top cap, middle body, and bottom base) that can be assembled and disassembled easily. This design makes cleaning the spray chamber simple and trouble-free, and permits the user to convert between baffled and non-baffled configurations.

COMPATIBILITY

With the **SCP SCIENCE** Ultem spray chamber, customers enjoy the ultimate in flexibility. By unscrewing the top and bottom, the body can be flipped to convert the spray chamber from left hand nebulizer entry to right hand entry allowing the spray chamber to be used in different manufacturers' instruments in the lab. The top can be converted from baffled to unbaffled by simply switching the top portion of the spray chamber. When the Ultem spray chamber is used with the **SCP SCIENCE** Mini X-Flow nebulizer, the pair provides the best choice for HF resistant operation.

ADVANTAGES

Cyclonic spray chambers provide superior wash out times compared to traditional Scott spray chambers. Choose a baffled spray chamber for stronger signal or unbaffled for better RSD, or both by purchasing the spray chamber with both top configurations!



ULTEM SPRAY CHAMBER

020-051-111

Complete Spray Chamber	Top Only
without baffle - 020-051-111	without baffle - 020-051-214
with baffle - 020-051-211	with baffle - 020-051-215

ALUMINA INJECTOR TORCHES

Beginning with our famous Mini X-Flow nebulizer, followed by a 100% Ultem cyclonic spray chamber, the final component of the chain is the **SCP SCIENCE** patented ICP torch with a fixed HF-resistant alumina injector. Designed to save the user time and money through extended torch life, and by eliminating the need to interchange injectors.



For SPECTRO Users
020-070-015



For PerkinElmer® Users
020-070-010



For Varian Users
020-070-005

Nebulizer

CROSS-FLOW

Features

Compatible with a variety of glass and HF resistant spray chambers for use with PerkinElmer®, TJA, Varian and SPECTRO ICP-OES and ICP-MS spectrometers.

Manufactured from acid resistant Ultem plastic

Ideal for high solids applications

Up to 30% TDS

Description	Catalog No.
Mini X-Flow Nebulizer	020-060-611
Cross Flow Nebulizer for 35 mm Spray Chamber	020-060-603
Cross Flow Nebulizer for SPECTRO	020-060-606

The Mini X-Flow and standard Cross Flow nebulizers are traditional choices for high solids or otherwise dirty samples. Ultem construction with sapphire (aluminum oxide crystal) argon jet and platinum-iridium sample port allows the use of most solutions including HF.

The standard Cross Flow fits Scott spray chambers with a 35mm opening, while the Mini X-Flow is designed for SCP SCIENCE cyclonic spray chambers. See page 100 for more details on our innovative Mini X-Flow and our complete Inert Sample Introduction System.



Cross Flow Nebulizer,
020-060-603



FREE PROMOTIONAL ITEM

**WITH EVERY SPRAY CHAMBER,
TORCH, NEBULIZER OR CONE!**

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Nebulizer CONCENTRIC



CONNECTORS AND TUBING INCLUDED WITH EACH NEBULIZER




Dr. James E. Meinhard began fabricating concentric glass nebulizers for ICP Spectroscopy during the technique's infancy in 1973. The first model featured a lapped, coplanar Type A nozzle and remains popular for use in general ICP applications. In 1983, Meinhard® introduced the Type C nebulizer for the analysis of samples high in dissolved solids. The Type K, designed to conserve argon, was developed in conjunction with an instrument manufacturer the following year.

Advantages include free aspiration without a peristaltic pump as well as a reproducible and self-aligning aerosol. Concentric nebulizers have traditionally been a preferred choice of spectroscopist seeking low RSD and detection limits.

SPECIFICATIONS



Configurations:	Concentric, monolithic
Materials:	Borosilicate Glass or Quartz
Tubulation Outer Diameter (O.D.)	Shell, 6 mm; fluid inputs, 4 mm
Nozzles:	A, C or K, see selection guide (above)
Internal Liquid Volume	0.1 ml
Annular Separation at Nozzle	10 - 30 µm
Calibration :	Provided with each unit: <ul style="list-style-type: none"> • P_c: Calibration input pressure at rated argon flow • Nominal P_c: (20, 30 or 50 psi) • R_a: Water uptake at P_c • Nominal R_a: (0.5, 1,2 or 3 ml/min)

Type	Type A	Type C	Type K
			
End surfaces	Lapped	Fire-polished	Lapped
Capillary tip recess	None, Coplanar	0.5 mm	0.5 mm
Uptake suction, atm	+	+	+
Calibration reference, Ar in L/min.	1.0	1.0	0.7
Stability of aerosol delivery	+	+	+
Popular ICP applications	General	High-Solids	Ar Low-Flow

Nebulizer CONCENTRIC

Nebulizers	Materials	P _c Range (psi)	R _a Range (ml/min)	Catalog No.
A Type (0.5)	Glass	25-40	0.3-0.6	020-060-014
A Type (1)	Glass	25-40	0.7-1.4	020-060-041
A Type (2)	Glass	25-40	1.5-2.4	020-060-001
A Type (2)	Quartz	25-40	1.5-2.4	020-060-011
A Type (3)	Glass	25-40	2.5-3.5	020-060-002
A Type (3)	Quartz	25-40	2.5-3.5	020-060-012
C Type (0.2)	Glass	25-40	0.1-0.4	020-060-023
C Type (0.2)	Quartz	25-40	0.1-0.4	020-060-613
C Type (0.5)	Glass	25-40	0.3-0.6	020-060-018
C Type (0.5)	Glass	41-60	0.3-0.6	020-060-004
C Type (1)	Glass	25-40	0.7-1.4	020-060-003
C Type (1)	Quartz	25-40	0.7-1.4	020-060-016
C Type (1)	Glass	41-60	0.7-1.4	020-060-005
C Type (1)	Quartz	41-60	0.7-1.4	020-060-013
C Type (2)	Glass	25-40	1.5-2.4	020-060-006
C Type (2)	Quartz	25-40	1.5-2.4	020-060-017
C Type (3)	Glass	25-40	2.5-3.5	020-060-007
K Type (1)	Quartz	25-40	0.7-1.4	020-060-024
K Type (2)	Glass	25-40	1.0-2.2	020-060-008
K Type (3)	Glass	25-40	2.3-4.0	020-060-009
Aerosalt	Glass	25-40	1.5-2.4	020-060-608

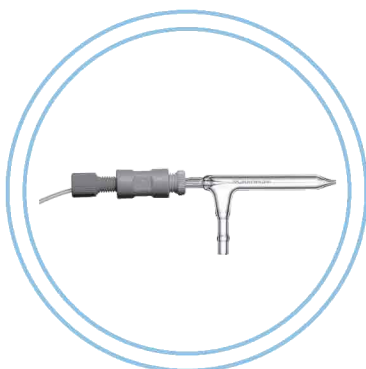
P_c = Argon Pressure (psi)

R_a = Sample Uptake (ml/min)

Nebulizer QUICK CONNECT KIT

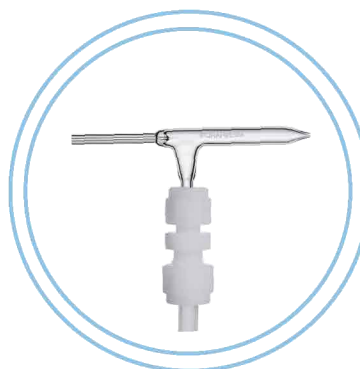
Damaged nebulizers and bruised knuckles are a thing of the past with Quick Connect Kits for nebulizers. These kits make switching out nebulizers fast and easy. Quick Connect Kits are available for all styles of Meinhard® Nebulizers.

Type	Description	Function	Catalog No.
High Pressure Gas Connection SCP Quick Fit Kit - HP® Gas	This Kit ties in the gas flow to the nebulizer. The union connects to the ¼" high pressure argon supply line. This fitting easily holds up to 190 psi.	Clamps / Connectors	020-060-052
4 mm Liquid Connection SCP Quick Fit Kit - Liquid	This kit is designed to tie into all concentric glass nebulizers with a 4 mm input tube for the sample or pump.	Clamps / Connectors	020-060-053



4 mm Liquid Connection

020-060-053



High Pressure Gas Connection

020-060-052

FREE

FREE PROMOTIONAL ITEM

WITH EVERY SPRAY CHAMBER OR TORCH!

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Nebulizer

PARALLEL PATH BURGNER

Burgener Nebulizers are made with the patented enhanced parallel path method enabling them to run high total dissolved solids (TDS) while providing excellent sensitivity and stability. Direct replacement for concentric nebulizers and fit cyclonic spray chambers.

Features

- Provide excellent sensitivity with high transport rates
- Eliminate plugs due to salt or undissolved particles
- Resistant to HF

CROSS REFERENCE

SCP SCIENCE	Thermo®	Agilent®	PerkinElmer®	SPECTRO	JY®
Mira Mist®, Teflon®	---	G3161A#001	---	---	---
Mira Mist®, PEEK	4600356	G3161A#002	N0775330	---	47.929.024
Ari Mist®	4600495	---	---	---	---
T2002®	---	---	---	76060534	---



Mira Mist®, PEEK
020-060-308

Nebulizers	P _c Range	R _a Range	Body	Catalog No.
Ari Mist® HP®	80	0.005-1.0	PEEK	020-060-307
Ari Mist®, LP	40-50	0.05-1.0	PEEK	020-060-314
Ari Mist®, Teflon® LP	40-50	0.05-1.0	PEEK	020-060-316
Mira Mist®, Teflon®	35-45	0.2-2.5	Teflon®	020-060-306
Mira Mist®, PEEK	35-45	0.2-2.5	PEEK	020-060-308
Mira Mist®, Graphite HS	35-45	0.2-2.5	Teflon®	020-060-310
Mira Mist®, CE	70-90	0.005-2.5	PEEK	020-060-312
Burgener T2002®	35-45	0.5-3.0	Teflon®	020-060-301
Burgener T2100®	35-45	0.5-2.0	Teflon®	020-060-318

P_c = Argon Pressure (psi) R_a = Sample Uptake (ml/min)

Burgener Gas Fittings - Included Free with Nebulizer Purchase	Fitting	Catalog No.
PTFE® Capillary Tubing	0.044" O.D. x 0.020" I.D. Tubing - 3 m Length	020-060-060
Polyethylene Capillary Tubing	0.044" O.D. x 0.017" I.D. Tubing - 3 m Length	020-060-061
Polyethylene Capillary Tubing with Blue Fitting (Standard for Mira Mist)	0.044" O.D. x 0.017" I.D. Tubing - 0.5 m Length	020-060-062
Polyethylene Capillary Tubing	0.044" O.D. x 0.017" I.D. Tubing - 30 m Length	020-060-320
Red PTFE® Capillary Tubing for Ari Mist® HP	0.035" O.D. x 0.008" I.D. Tubing - 3 m Length	020-060-322
Red PTFE® Capillary Tubing with Red Adapter for Ari Mist® HP	0.035" O.D. x 0.008" I.D. Tubing - 0.5 m Length	020-060-382
White Sample KefF Fitting with Clear Teflon Tubing for Agilent ICPMS	0.062" OD x 0.020" I.D. Tubing - 0.5 m Length	020-060-384
Yellow Fitting with Clear FEP or PTFE Tubing	0.5 meters of .044" OD x .020" I.D. Tubing - 0.5 m Length	020-060-063

Nebulizer PARALLEL PATH BURGNER

Replacement Sample Lines for Burgener Nebulizers	Catalog No.
Agilent®/HP® - Gas Line	020-060-359
Agilent®/HP® - Sample Line	020-060-384
Agilent®/7700 Series - Gas Line	020-060-352
Agilent®/7700 Series - Sample Line	020-060-384
Agilent®/Varian ICP - Gas Line	020-060-380
Agilent®/Varian ICP - Sample Line	020-060-384
Bruker ICP/MS	020-060-380
Horiba®/JobinYvon®	020-060-352
GBC	020-060-380
Finnigan (including Neptune)	020-060-380
Teledyne®/Leeman®	020-060-380

Replacement Sample Lines for Burgener Nebulizers	Catalog No.
PE®/Sciex Elan ICP/MS (1/4" Swagelok gas lines)	020-060-353
PE® Optima 3000 series	020-060-353
PE® Optima 2000, 4000, 5000, 7000 & 8000 series	020-060-356
Spectro	020-060-358
Thermo Scientific - TJA ICP (Luer Lock fitting)	020-060-351
Thermo Scientific - iCAP 6000 series ICP	020-060-352
Thermo Scientific - ICP/MS (X series)	020-060-352
Thermo Scientific - Finnigan Neptune ICP/MS	020-060-380
Thermo Scientific - VG Elemental ICP/MS (pre 2002)	020-060-355
Varian ICP	020-060-380

MODIFIED LICHTE

Studies performed on both radial (SPECTRO Modula ICP) and axial (SPECTRO EOP) ICP-OES instruments indicate that a 2-3 time improvement in sensitivity (and detection limits) can be obtained by changing from the conventional concentric nebulizer and Scott double-pass spray chamber arrangement to a Modified Lichte Nebulizer (MLN) and Cyclonic Spray Chamber.

The modified Lichte Nebulizer incorporates double bore glass tubing with an impact bead for fine aerosol dispersion. Operating principles are similar to that of the V-groove design where the face of the nebulizer encounters a high velocity stream of argon gas which converts the sample into a fine aerosol. This novel design allows improved detection limits over standard pneumatic nebulizers while allowing solutions containing higher dissolved solids to be run without clogging.

Nebulizer	Catalog No.
Nebulizer, Modified Lichte with Fittings SPECTRO X-REF#: 76060529	020-060-117
*Nebulizer, Modified Lichte (1L/min) SPECTRO X-REF # 48205036	020-060-118
*Nebulizer, Modified Lichte (0.7L/min)	020-060-120

* Requires use of MLN cyclonic spray chamber. See ICP-OES Instrument section to choose an appropriate spray chamber.

V-GROOVE

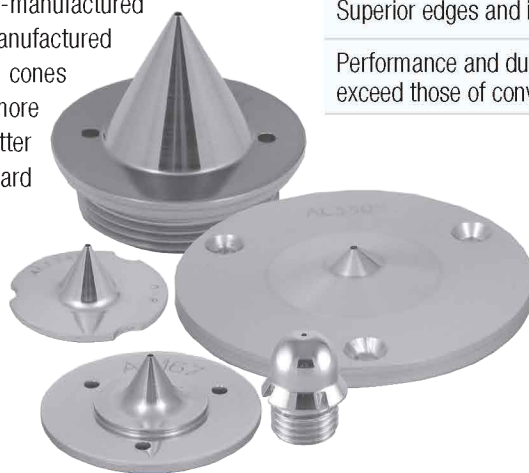
Type	Description	Catalog No.
Noordermeer	Nebulizer, w/o fitting	020-060-602
	Nebulizer, with fitting	020-060-612
Babbington	Nebulizer HP X-REF #: G182060453	020-060-605
	Nebulizer, High Solids Varian X-REF #: 9910057400	020-060-607
	Nebulizer with Quick Disconnect	020-060-614
	Sample Tube, Babb. neb (2 Ft)	020-050-150
	Viton® O-ring, Babb. (pk/4)	020-050-220

Noordermeer Nebulizer, fits standard 6 mm spray chamber or a Scott spray chamber with Teflon® End cap. A practical choice for samples containing high solids.

Babbington V-Groove Nebulizer, ½" diameter, for use with Hydrofluoric (HF) acid and samples containing high solids. Use with an End cap.

ICP-MS CONES

PlasmaFORM cones are an attractive alternative to the traditional method of manufacturing ICP-MS cones. Rather than being manufactured on CNC Lathe-manufactured equipment, **PlasmaFORM** cones are manufactured by the electroforming process. Electroformed cones provide superior performance through a more perfect finish (no machining defects) and better heat transfer. Electro-formed cones are standard OEM-issue for many ICP-MS manufacturers.

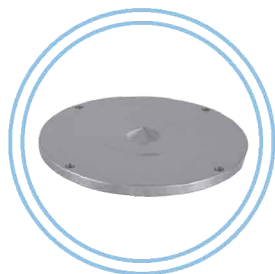


Features

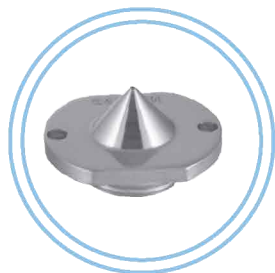
Superior edges and internal geometry compared to CNC cones

Performance and durability have been proven to equal or exceed those of conventionally manufactured cones

AGILENT®



Cone, Sampler, Ni,
HP® 4500/7500, (25 mm)
020-107-051



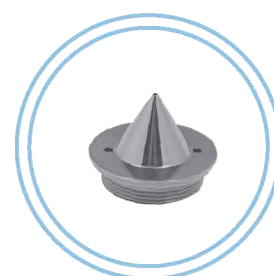
Cone, Skimmer, Ni,
HP® 4500
020-107-052

Description	OEM X-ref Number	Catalog No.
Cone, Skimmer, Nickel, Agilent® 7500C	G183365497	020-102-054
Cone, Skimmer, Nickel, for 7500CE/CX	G327065024	020-102-056
Cone, Skimmer, Ni, 7500 a/i/s	G182065050	020-102-057
Cone, Skimmer, Pt, 7500 a/i/s	G182065207	020-102-059
Cone, Skimmer, Pt, 7500cs	G327060106	020-102-070
Cone, Skimmer, Pt, (Cu Base), 7500cs/ce	G183365132	020-102-071
Cone, Sampler, Ni/Cu, 7700 (unplated)	G328067040	020-102-073
Cone, Skimmer, Ni 7700x	G328067041	020-102-074
Cone, Skimmer, Ni 7700s	G328067066	020-102-075
Cone, Sampler, Ni 7700 (plated)	G328067061	020-102-076
Cone, Skimmer, Pt, 7700s	G328067064	020-102-077
Cone, Skimmer, Pt, 7700x	G328067060	020-102-078
Cone, Skimmer, Pt, Ni Base, 7700	G328067063	020-102-079
Cone, Sampler, Pt, 7700	G328067036	020-102-080
Cone, Skimmer, Pt, Agilent® 7500C	G183365092	020-102-154
Cone, Sampler, Ni, HP®4500/7500, (25 mm)	G182065238	020-107-051
Cone, Skimmer, Ni, HP®4500	G182065265	020-107-052
Cone, Sampler, Pt, HP®4500/7500 (10 mm)	G182065239	020-107-151
Cone, Skimmer, Pt, HP®4500 (7.2 mm)	G182065237	020-107-152

ICP-MS Cones

PERKINELMER® SERIES

Description	OEM X-ref Number	Catalog No.
Cone, Sampler, Ni, PE®5000	WE013087	020-101-062
Cone, Skimmer, Ni, PE®5000	N8122000	020-101-063
Cone, Sampler, Ni, PE® ELAN 9000/6X00/DRC	WE021140	020-101-064
Cone, Skimmer, Ni, PE® ELAN 9000/6X00/DRC	WE021137	020-101-065
Cone, Sampler, Pt, PE® ELAN 9000/6X00/DRC	WE014815 / WE027802	020-101-164
Cone, Skimmer, Pt, PE® ELAN 9000/6X00/DRC	WE014816 / WE027803	020-101-165
Cone, Hyper Skimmer, Ni for PE® NexION	W1033995	020-101-070
Cone, Skimmer, Ni for PE® NexION	W1026356	020-101-072
Cone, Sampler, Ni for PE® NexION	W1033612	020-101-074
Cone, Skimmer, Pt for PE® NexION	W1026907	020-101-076
Cone, Sampler, Pt for PE® NexION	W1033614	020-101-078
O'Ring, Sampler for PE®	N8120511	020-101-104
O'Ring, Skimmer for PE®	N8120512	020-101-102



Cone, Skimmer, Ni,
PE® ELAN 9000/6X00/DRC
020-101-065

THERMO® VG SERIES

Description	OEM X-ref Number	Catalog No.
Cone, Skimmer, (18 mm) PS8R (50/30)	3600811	020-104-020
Cone, Sampler, (4450)	3600812	020-104-022
Cone, Sampler, Platinum, Xs/Xt	3601289	020-104-028
Cone, Sampler, Ni, VG, with Fixing Holes	3004661 / 4001690	020-106-070
Cone, Skimmer, Mini, Ni	3004866 / 4001689	020-106-071
Cone, Skimmer, Micro, Ni	3200860 / 4200846	020-106-072
Cone, Skimmer, Micro, Ni, PT2	3200456 / 3201457	020-106-074
Cone, Skimmer, Ni, VG, (0.4 mm)	3201585	020-106-075
Cone, Sampler, Ni, VG, w/o Fixing Holes	---	020-106-078
Cone, Sampler, Pt, VG (6.35 mm)	3200262	020-106-170
Cone, Skimmer, Micro, Pt, VG	3201101	020-106-172
Cone, Skimmer, Micro, Pt, PT2	3201941	020-106-174
Cone, Screen, Slide, Ni	3204004	020-106-190
Cone, Screen, Slide, Ni	3204269	020-106-192
Cone, Transfer, Ni Earth	3204486	020-106-194
Adapter for Skimmer, Cu c/w 4 Screw	3600813	020-104-024



Cone, Sampler, Ni,
VG, with Fixing Holes
020-106-070

ICP-MS Cones

THERMO® FINNIGAN SERIES



Cone, Skimmer, Nickel
020-102-051

Description	OEM X-ref Number	Catalog No.
Cone, Sampler	1044530	020-102-050
Cone, Skimmer	1044540	020-102-051
Cone, Skimmer, High Performance	1067600	020-102-052
Cone, Skimmer, Pt	1067510	020-102-061
Cone, Skimmer, Ni, X	1142160	020-102-067
Cone, Skimmer, Pt, X	1142150	020-102-069
Cone, Sampler, Pt	1067500	020-102-150
Cone, Skimmer, Pt, High Performance	1047460	020-102-151
Cone, Sampler	1044530al	020-102-250
Cone, Skimmer, Al, High Performance	1067600al	020-102-251

ANALYTIK JENA (VARIAN) 800-MS SERIES



Cone, Skimmer, Nickel
020-107-072

Description	OEM X-ref Number	Catalog No.
Cone, Sampler, F-Series	9910094000	020-107-070
Cone, Skimmer, F-Series	9910094100	020-107-072

FREE

FREE PROMOTIONAL ITEM

WITH EVERY PURCHASE OF AN
SCP SCIENCE PlasmaFORM CONE
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PERISTALTIC PUMP TUBING

SCP SCIENCE offers a complete range of affordable and reliable peristaltic pump tubing including: PHTHALATE-FREE PVC, Solvent Flex, Silicone, Viton®, and Santoprene® compositions. Tested and certified for chemical composition, performance and durability, simply choose the proper color, inner diameter (I.D.), and number of “stops” to confirm the right pump tubing. Can't find exactly what you're looking for? Additional and custom sizes are available. Contact your sales representative.



FLARED PERISTALTIC PUMP TUBING

With traditional tubing, it can be difficult to insert the sample tube into the pump tube - especially when working with different inner diameters (IDs). With this new product, the tubing is flared at the end, letting you use the ID you require while providing an opening wide enough to easily insert a larger - diameter sample tube.

MIXING KITS

Description	Catalog No.
Internal Std Mix Kit - PVC org/org, org/grn (pk/4)	020-049-601
Internal Std Mix Kit - PVC org/red, blk/blk (pk/4)	020-049-603
Internal Std Mix Kit - PVC gry/gry, org/blu (pk/4)	020-049-604
Internal Std Mix Kit Solvent Flex - gry/gry, org/blu (pk/4) for organics	020-049-605
Internal Std Mix Kit - PVC org/yel, org/blu (pk/4)	020-049-606
Internal Std Mix Kit - Viton red/red, org/org (pk/4)	020-049-609

Mixing kits are designed to accommodate the automated addition of either an internal standard or ionization suppression solution by means of a metered flow and mixing through peristaltic pump tubing.

The mixing kit will provide an appropriate sample dilution for your needs. Consult your ICP Spectrometer documentation for the appropriate concentration for the Internal Standard Solution.

Peristaltic Pump Tubing

CHEMICAL RESISTANCE

Chemical compatibility varies between different materials and solution. For example, Viton® tubing is resistant to many inorganic chemicals and even to some organic solvents. The chemical resistance table will help choose the correct pump tubing material for your application. Contact your Sales Representative or local distributor to inquire about the right pump tubing.

Chemical Classification	PVC	Solvent Flex	Silicone	Viton®	Santoprene®
Acetone	U	U	X	U	U
Alcohols	X	X	X	X	---
Aliphatic Hydrocarbons	U	X	U	U	---
Aqua Regia	U	X	---	O	U
Aromatic Hydrocarbons	U	U	O	X	---
Gasoline (non-aromatic)	U	U	U	X	U
Gasoline (high aromatic)	U	U	U	X	---
Hydrochloric Acid (diluted)	X	X	U	X	X
Kerosene	U	U	U	X	U
Ketones (MIBK)	U	U	U	U	X
Nitric Acid (diluted)	X	X	O	X	O
Oils, Animal	U	X	O	X	X
Oils, Mineral	U	X	O	X	X
Oils, Vegetable	O	X	X	X	X
PremiSolv™	U	X	O	X	U
Sulfuric Acid (diluted)	X	X	U	X	O
Water	X	X	X	X	X
Xylene	U	U	U	X	U



Legend

X	Satisfactory
O	Use only after testing
U	Unsatisfactory
"---	No data available



15 TUBES FOR THE PRICE OF 12

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Pump Tubing PHTHALATE-FREE PVC

PVC pump tubing is the standard choice for most inorganic analysis due to its strong acid resistance and elasticity, which provides for good longevity. Consult the Chemical Resistance chart on page 112.

2 STOP

Color Code		ID (mm)	STANDARD 150 mm INTER-STOP		MICRO 72 mm INTER-STOP	
			REGULAR Catalog Number (pack of 15 tubes)	FLARED Catalog Number (pack of 15 tubes)	REGULAR Catalog Number (pack of 15 tubes)	FLARED Catalog Number (pack of 15 tubes)
ORANGE	RED	0.19	022-030-002	022-130-002	023-030-002	023-130-002
ORANGE	BLUE	0.25	022-030-003	022-130-003	023-030-003	023-130-003
ORANGE	GREEN	0.38	022-030-004	022-130-004	023-030-004	023-130-004
GREEN	YELLOW	0.44	022-030-024	022-130-024	023-030-024	023-130-024
ORANGE	YELLOW	0.51	022-030-005	022-130-005	023-030-005	023-130-005
ORANGE	WHITE	0.64	022-030-006	022-130-006	023-030-006	023-130-006
BLACK	BLACK	0.76	022-030-007	022-130-007	023-030-007	023-130-007
ORANGE	ORANGE	0.89	022-030-008	022-130-008	023-030-008	023-130-008
WHITE	BLACK	0.95	022-030-023	022-130-023	023-030-023	023-130-023
WHITE	WHITE	1.02	022-030-009	022-130-009	023-030-009	023-130-009
RED	RED	1.14	022-030-010	022-130-010	023-030-010	023-130-010
GRAY	GRAY	1.30	022-030-011	022-130-011	023-030-011	023-130-011
YELLOW	YELLOW	1.42	022-030-012	022-130-012	023-030-012	023-130-012
YELLOW	BLUE	1.52	022-030-019	022-130-019	023-030-019	023-130-019
BLUE	BLUE	1.65	022-030-013	022-130-013	023-030-013	023-130-013
BLUE	GREEN	1.75	022-030-022	022-130-022	023-030-022	023-130-022
GREEN	GREEN	1.85	022-030-014	022-130-014	023-030-014	023-130-014
PURPLE	PURPLE	2.06	022-030-015	022-130-015	023-030-015	023-130-015
PURPLE	BLACK	2.29	022-030-016	022-130-016	023-030-016	023-130-016
PURPLE	ORANGE	2.54	022-030-017	022-130-017	023-030-017	023-130-017
PURPLE	WHITE	2.79	022-030-018	022-130-018	023-030-018	023-130-018
BLACK	WHITE	3.18	022-030-021	022-130-021	023-030-021	023-130-021

Pump Tubing

PHTHALATE-FREE PVC

3 STOP

			STANDARD 72 mm INTER-STOP			MINI 95 mm INTER-STOP	
Color Code			ID (mm)	REGULAR Catalog Number (pack of 15 tubes)	FLARED Catalog Number (pack of 15 tubes)	REGULAR Catalog Number (pack of 15 tubes)	FLARED Catalog Number (pack of 15 tubes)
ORANGE	RED	ORANGE	0.19	022-033-002	022-133-002	024-033-002	024-133-002
ORANGE	BLUE	ORANGE	0.25	022-033-003	022-133-003	024-033-003	024-133-003
ORANGE	GREEN	ORANGE	0.38	022-033-004	022-133-004	024-033-004	024-133-004
ORANGE	YELLOW	ORANGE	0.51	022-033-005	022-133-005	024-033-005	024-133-005
ORANGE	WHITE	ORANGE	0.64	022-033-006	022-133-006	024-033-006	024-133-006
BLACK	BLACK	BLACK	0.76	022-033-007	022-133-007	024-033-007	024-133-007
ORANGE	ORANGE	ORANGE	0.89	022-033-008	022-133-008	024-033-008	024-133-008
WHITE	BLACK	WHITE	0.95	022-033-023	022-133-023	024-033-023	024-133-023
WHITE	WHITE	WHITE	1.02	022-033-009	022-133-009	024-033-009	024-133-009
RED	RED	RED	1.14	022-033-010	022-133-010	024-033-010	024-133-010
GRAY	GRAY	GRAY	1.30	022-033-011	022-133-011	024-033-011	024-133-011
YELLOW	YELLOW	YELLOW	1.42	022-033-012	022-133-012	024-033-012	024-133-012
YELLOW	BLUE	YELLOW	1.52	022-033-019	022-133-019	024-033-019	024-133-019
BLUE	BLUE	BLUE	1.65	022-033-013	022-133-013	024-033-013	024-133-013
GREEN	GREEN	GREEN	1.85	022-033-014	022-133-014	024-033-014	024-133-014
PURPLE	PURPLE	PURPLE	2.06	022-033-015	022-133-015	024-033-015	024-133-015
PURPLE	BLACK	PURPLE	2.29	022-033-016	022-133-016	024-033-016	024-133-016
PURPLE	ORANGE	PURPLE	2.54	022-033-017	022-133-017	024-033-017	024-133-017
PURPLE	WHITE	PURPLE	2.79	022-033-018	022-133-018	024-033-018	024-133-018
BLACK	WHITE	BLACK	3.18	022-033-021	022-133-021	024-033-021	024-133-021

SAMPLE / DRAIN / TRANSMISSION TUBING

Description	ID (mm)	Length	Catalog Number
PVC Tubing	0.19	15 m	020-039-005
Polyethylene sample tubing, OD 1.0 mm	0.6	30 m	020-039-403
PVC Tubing	0.64	15 m	020-039-002
PVC Tubing	1.14	15 m	020-039-012
PVC Tubing	1.52	15 m	020-039-001
PVC Tubing	2.29	15 m	020-039-004
PVC Tubing	2.79	15 m	020-039-007

Pump Tubing SOLVENT FLEX

Solvent Flex tubing is the ideal choice for analysis of organics with the exception of the most aggressive solvents. Combining strong resistance to most diluents with good elasticity, provides excellent value. Consult the Chemical Resistance chart on page 112.

2 STOP

Color Code	ID (mm)	STANDARD 140 mm INTER-STOP		MICRO 72 mm INTER-STOP		
		REGULAR Catalog Number (pack of 15 tubes)	FLARED Catalog Number (pack of 15 tubes)	REGULAR Catalog Number (pack of 15 tubes)	FLARED Catalog Number (pack of 15 tubes)	
ORANGE	RED	0.19	022-030-102	022-130-102	023-030-102	023-130-102
ORANGE	BLUE	0.25	022-030-103	022-130-103	023-030-103	023-130-103
ORANGE	GREEN	0.38	022-030-104	022-130-104	023-030-104	023-130-104
ORANGE	YELLOW	0.51	022-030-105	022-130-105	023-030-105	023-130-105
ORANGE	WHITE	0.64	022-030-106	022-130-106	023-030-106	023-130-106
BLACK	BLACK	0.76	022-030-107	022-130-107	023-030-107	023-130-107
ORANGE	ORANGE	0.89	022-030-108	022-130-108	023-030-108	023-130-108
WHITE	WHITE	1.02	022-030-109	022-130-109	023-030-109	023-130-109
RED	RED	1.14	022-030-110	022-130-110	023-030-110	023-130-110
GRAY	GRAY	1.30	022-030-111	022-130-111	023-030-111	023-130-111
YELLOW	YELLOW	1.42	022-030-112	022-130-112	023-030-112	023-130-112
YELLOW	BLUE	1.52	022-030-119	022-130-119	023-030-119	023-130-119
BLUE	BLUE	1.65	022-030-113	022-130-113	023-030-113	023-130-113
BLUE	GREEN	1.75	022-030-122	022-130-122	023-030-122	023-130-122
GREEN	GREEN	1.85	022-030-114	022-130-114	023-030-114	023-130-114
PURPLE	PURPLE	2.06	022-030-115	022-130-115	023-030-115	023-130-115
PURPLE	BLACK	2.29	022-030-116	022-130-116	023-030-116	023-130-116
PURPLE	ORANGE	2.54	022-030-117	022-130-117	023-030-117	023-130-117
PURPLE	WHITE	2.79	022-030-118	022-130-118	023-030-118	023-130-118
BLACK	WHITE	3.18	022-030-121	022-130-121	023-030-121	023-130-121

SAMPLE / DRAIN / TRANSMISSION TUBING

Description	ID (mm)	Length	Catalog Number
Polyethylene sample tubing OD 1.0 mm	0.6	30 m	020-039-403
Solvent flex tubing	0.76	15 m	020-039-010
Solvent flex tubing	1.14	15 m	020-039-011
Solvent flex tubing	1.52	15 m	020-039-009

Pump Tubing

SOLVENT FLEX

3 STOP REGULAR

STANDARD - 81 mm INTER-STOP				
Color Code			ID (mm)	Catalog Number (pack of 15 tubes)
ORANGE	RED	ORANGE	0.19	022-033-102
ORANGE	BLUE	ORANGE	0.25	022-033-103
ORANGE	GREEN	ORANGE	0.38	022-033-104
BLACK	BLACK	BLACK	0.76	022-033-107
ORANGE	ORANGE	ORANGE	0.89	022-033-108
WHITE	WHITE	WHITE	1.02	022-033-109
RED	RED	RED	1.14	022-033-110
GRAY	GRAY	GRAY	1.30	022-033-111
YELLOW	YELLOW	YELLOW	1.42	022-033-112
YELLOW	BLUE	YELLOW	1.52	022-033-119
BLUE	BLUE	BLUE	1.65	022-033-113
PURPLE	PURPLE	PURPLE	2.06	022-033-115
PURPLE	WHITE	PURPLE	2.79	022-033-118

72 mm INTER-STOP				
Color Code			ID (mm)	Catalog Number (pack of 15 tubes)
ORANGE	ORANGE	ORANGE	0.89	022-034-108
RED	RED	RED	1.14	022-034-110
YELLOW	YELLOW	YELLOW	1.42	022-034-112
YELLOW	BLUE	YELLOW	1.52	022-034-119
BLUE	BLUE	BLUE	1.65	022-034-113
PURPLE	PURPLE	PURPLE	2.06	022-034-115

67 mm INTER-STOP				
Color Code			ID (mm)	Catalog Number (pack of 15 tubes)
YELLOW	YELLOW	YELLOW	1.42	022-035-112
YELLOW	BLUE	YELLOW	1.52	022-035-119
BLUE	BLUE	BLUE	1.65	022-035-113
PURPLE	PURPLE	PURPLE	2.06	022-035-115

Pump Tubing SANTOPRENE®

Santoprene® biocompatible pump tubing, equivalent to Pharmed, Marprene & Duraprene, is the first choice for laboratories performing biological analysis and other medical applications. Consult the Chemical Resistance chart on page 112.

2 STOP REGULAR

STANDARD - 150 mm INTER-STOP

Color Code		ID (mm)	Catalog Number (pack of 15 tubes)
ORANGE	BLUE	0.25	022-030-403
ORANGE	GREEN	0.38	022-030-404
ORANGE	YELLOW	0.51	022-030-405
ORANGE	WHITE	0.64	022-030-406
BLACK	BLACK	0.76	022-030-407
ORANGE	ORANGE	0.89	022-030-408
WHITE	WHITE	1.02	022-030-409
RED	RED	1.14	022-030-410
GRAY	GRAY	1.30	022-030-411
YELLOW	YELLOW	1.42	022-030-412
YELLOW	BLUE	1.52	022-030-419
BLUE	BLUE	1.65	022-030-413
GREEN	GREEN	1.85	022-030-414
PURPLE	PURPLE	2.06	022-030-415
PURPLE	BLACK	2.29	022-030-416
PURPLE	WHITE	2.79	022-030-418

2 STOP MICRO

MICRO - 72 mm INTER-STOP

Color Code		ID (mm)	Catalog Number (pack of 15 tubes)
ORANGE	GREEN	0.38	023-030-404
BLACK	BLACK	0.76	023-030-407
GRAY	GRAY	1.30	023-030-411
YELLOW	BLUE	1.52	023-030-419
BLACK	WHITE	3.18	023-030-421

3 STOP REGULAR

STANDARD - 72 mm INTER-STOP

Color Code			ID (mm)	Catalog Number (pack of 15 tubes)
ORANGE	YELLOW	ORANGE	0.51	022-033-405
ORANGE	ORANGE	ORANGE	0.89	022-033-408
WHITE	WHITE	WHITE	1.02	022-033-409
RED	RED	RED	1.14	022-033-410
GRAY	GRAY	GRAY	1.30	022-033-411
YELLOW	YELLOW	YELLOW	1.42	022-033-412
YELLOW	BLUE	YELLOW	1.52	022-033-419
BLUE	BLUE	BLUE	1.65	022-033-413
PURPLE	PURPLE	PURPLE	2.06	022-033-415
PURPLE	BLACK	PURPLE	2.29	022-033-416
PURPLE	WHITE	PURPLE	2.79	022-033-418

SAMPLE / DRAIN / TRANSMISSION TUBING

Description	ID (mm)	Length	Catalog Number
Santoprene® tubing	1.6	30 m	020-039-401
Santoprene® tubing, OD 9.5 mm	6.4	15 m	020-039-402
Polyethylene sample tubing OD 1.0 mm	0.6	30 m	020-039-403

Pump Tubing

VITON®

The extreme resistance of Viton® to strong acids and aggressive solvents, make Viton® the ideal choice when analyzing solutions that are too strong for other materials. Consult the Chemical Resistance chart on page 112.

2 STOP REGULAR

STANDARD - 127 mm INTER-STOP			
Color Code		ID (mm)	Catalog Number (pack of 15 tubes)
ORANGE	YELLOW	0.51	022-030-305
ORANGE	WHITE	0.64	022-030-306
BLACK	BLACK	0.76	022-030-307
ORANGE	ORANGE	0.89	022-030-308
WHITE	WHITE	1.02	022-030-309
RED	RED	1.14	022-030-310
GRAY	GRAY	1.30	022-030-311
YELLOW	YELLOW	1.42	022-030-312
YELLOW	BLUE	1.52	022-030-319
BLUE	BLUE	1.65	022-030-313
GREEN	GREEN	1.85	022-030-314
PURPLE	PURPLE	2.06	022-030-315
PURPLE	BLACK	2.29	022-030-316
PURPLE	ORANGE	2.54	022-030-317
PURPLE	WHITE	2.79	022-030-318

STANDARD - 140 mm INTER-STOP			
Color Code		ID (mm)	Catalog Number (pack of 15 tubes)
BLACK	BLACK	0.76	022-031-307
RED	RED	1.14	022-031-310

3 STOP REGULAR

STANDARD - 82 mm INTER-STOP				
Color Code			ID (mm)	Catalog Number (pack of 15 tubes)
ORANGE	YELLOW	ORANGE	0.51	022-033-305
ORANGE	ORANGE	ORANGE	0.89	022-033-308
BLACK	BLACK	BLACK	0.76	022-033-307
WHITE	WHITE	WHITE	1.02	022-033-309
RED	RED	RED	1.14	022-033-310
YELLOW	YELLOW	YELLOW	1.42	022-033-312
YELLOW	BLUE	YELLOW	1.52	022-033-319
BLUE	BLUE	BLUE	1.65	022-033-313
GREEN	GREEN	GREEN	1.85	022-033-314
PURPLE	PURPLE	PURPLE	2.06	022-033-315
PURPLE	BLACK	PURPLE	2.29	022-033-316
PURPLE	ORANGE	PURPLE	2.54	022-033-317

Pump Tubing

SILICONE

Silicon peristaltic pump tubing provides excellent repeatability and longevity, though limited in number of applications due to chemical resistance. Consult the Chemical Resistance chart on page 112.

3 STOP REGULAR

STANDARD - 67 mm INTER-STOP

Color Code			ID (mm)	Catalog Number (pack of 15 tubes)
ORANGE	WHITE	ORANGE	0.64	022-033-206
BLACK	BLACK	BLACK	0.76	022-033-207
ORANGE	ORANGE	ORANGE	0.89	022-033-208
WHITE	WHITE	WHITE	1.02	022-033-209
RED	RED	RED	1.14	022-033-210
YELLOW	YELLOW	YELLOW	1.42	022-033-212
YELLOW	BLUE	YELLOW	1.52	022-033-219
GREEN	GREEN	GREEN	1.85	022-033-214
PURPLE	PURPLE	PURPLE	2.06	022-033-215
PURPLE	BLACK	PURPLE	2.29	022-033-216
PURPLE	ORANGE	PURPLE	2.54	022-033-217
PURPLE	WHITE	PURPLE	2.79	022-033-218

SAMPLE / DRAIN / TRANSMISSION TUBING

Description	ID (mm)	Length (m)	Catalog Number
Silicone tubing, 1.6 mm wall	4.8	15	020-039-013
Polyethylene sample tubing OD 1.0 mm	0.6	30	020-039-403

2 STOP REGULAR

STANDARD - 140 mm INTER-STOP

Color Code		ID (mm)	Catalog Number (pack of 15 tubes)
ORANGE	RED	0.19	022-030-202
ORANGE	GREEN	0.38	022-030-204
GREEN	YELLOW	0.44	022-030-224
ORANGE	YELLOW	0.51	022-030-205
ORANGE	WHITE	0.64	022-030-206
BLACK	BLACK	0.76	022-030-207
ORANGE	ORANGE	0.89	022-030-208
WHITE	WHITE	1.02	022-030-209
RED	RED	1.14	022-030-210
GRAY	GRAY	1.30	022-030-211
YELLOW	YELLOW	1.42	022-030-212
YELLOW	BLUE	1.52	022-030-219
BLUE	BLUE	1.65	022-030-213
GREEN	GREEN	1.85	022-030-214
PURPLE	PURPLE	2.06	022-030-215
PURPLE	BLACK	2.29	022-030-216
PURPLE	ORANGE	2.54	022-030-217



EXTRA PUMP TUBING IN EVERY PACK

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Pump Tubing

TUBING FOR LEEMAN® INSTRUMENTS

Color Code	Size	Quantity (tubes)	Leeman® Cross Reference	Catalog Number	
BLACK	6", 25 mm to stop	12	---	020-036-012	
BLUE	137 mm long, 25 mm to stop	12	309-00088-2	020-036-011	
BLUE	6", 25 mm to stop	12	---	020-036-014	
GRAY	400 mm long, 150 mm to stop	25	---	020-033-452	
GREEN	400 mm long, 150 mm to stop	25	---	020-033-450	
ORANGE	455 mm long, 140 mm to stop	12	---	020-036-108	
ORANGE	37.5" long, 19.5" to stop	12	309-3551	020-036-008	
RED	187 mm long, 25 mm to stop	12	309-00088-4	020-036-009	
RED	30" long, 12" to stop	12	309-3538	020-036-010	
BLACK	BLACK	Solvent Flex, 16.5 cm between stops, 30.5 cm in total	12	309-0069-2	020-037-005
RED	RED	Solvent Flex, 16.5 cm between stops, 30.5 cm in total	12	309-0069-8	020-037-007
YELLOW	ORANGE	Solvent Flex, 16.5 cm between stops, 30.5 cm in total	12	309-0069-5	020-037-010

AUTOSAMPLER TUBES



Description	Composition	Qty	Cross Reference	Catalog No.
1.5 ml Conical Sample Cups	Polystyrene	1000	B0119079	080-070-102
3.5 ml Conical Sample Cups	Polystyrene	1000	B0129303	080-070-103
15 ml DigiTUBE Autosampler Tubes, Round Bottom (17 x 100 mm)	Polypropylene	1000	n/a	010-515-607
Plug Stopper, 17 mm for 010-515-607	Polyethylene	1000	n/a	130-012-017
6 ml Round Bottom (13 x 100 mm)	Polypropylene	1000	B0193235	130-012-001
12 ml Round Bottom (16 x 100 mm)	Polypropylene	1000	n/a	130-012-006
15 ml Centrifuge Tube (17 x 120 mm)	Polypropylene	1000	N7301205	130-010-015
Plug Stopper for 15 ml tube	Polyethylene	1000	n/a	130-010-115
50 ml Conical Bottom, Centrifuge Tubes w/caps (29 x 118 mm)	Polypropylene	500	n/a	130-010-051
15 ml DigiTUBE with screw caps	Polypropylene	1620	n/a	010-515-263
50 ml DigiTUBE with screw caps	Polypropylene	1000	n/a	010-500-263